

[illegible]

```
RRRRRRRR  MM  MM  SSSSSSSS  RRRRRRRR  EEEEEEEEE  PPPPPPPP  000000  RRRRRRRR  TTTTTTTTTT
RRRRRRRR  MM  MM  SSSSSSSS  RRRRRRRR  EEEEEEEEE  PPPPPPPP  000000  RRRRRRRR  TTTTTTTTTT
RR  RR  RR  MMMM  MMMM  SS  RR  RR  EE  PP  PP  00  00  RR  RR  TT
RR  RR  RR  MMMM  MMMM  SS  RR  RR  EE  PP  PP  00  00  RR  RR  TT
RR  RR  RR  MM  MM  SS  RR  RR  EE  PP  PP  00  00  RR  RR  TT
RR  RR  RR  MM  MM  SS  RR  RR  EE  PP  PP  00  00  RR  RR  TT
RRRRRRRR  MM  MM  SSSSSS  RRRRRRRR  EEEEEEE  PPPPPPPP  00  00  RRRRRRRR  TT
RRRRRRRR  MM  MM  SSSSSS  RRRRRRRR  EEEEEEE  PPPPPPPP  00  00  RRRRRRRR  TT
RR  RR  MM  MM  SS  RR  RR  EE  PP  00  00  RR  RR  TT
RR  RR  MM  MM  SS  RR  RR  EE  PP  00  00  RR  RR  TT
RR  RR  MM  MM  SS  RR  RR  EE  PP  00  00  RR  RR  TT
RR  RR  MM  MM  SSSSSSSS  RR  RR  EEEEEEEEE  PP  000000  RR  RR  TT
RR  RR  MM  MM  SSSSSSSS  RR  RR  EEEEEEEEE  PP  000000  RR  RR  TT
                                     ....
                                     ....
                                     ....
                                     ....

LL  I I I I I  SSSSSSSS
LL  I I I I I  SSSSSSSS
LL  II  SS
LL  II  SS
LL  II  SS
LL  II  SS
LL  II  SSSSSS
LL  II  SSSSSS
LL  II  SS
LL  II  SS
LL  II  SS
LL  II  SS
LLLLLLLLLLL  I I I I I  SSSSSSSS
LLLLLLLLLLL  I I I I I  SSSSSSSS
```



```

1 0001 0 %title 'RMSREPORT - Handle Output for ANALYZE/RMS_FILE'
2 0002 0 module rmsreport (
3 0003 1 ident='V04-000') = begin
4 0004 1
5 0005 1
6 0006 1 *****
7 0007 1 *
8 0008 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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25 0025 1 *
26 0026 1 *
27 0027 1 *****
28 0028 1
29 0029 1
30 0030 1 ++
31 0031 1 Facility: VAX/VMS Analyze Facility, Handle Reports for ANALYZE/RMS_FILE
32 0032 1
33 0033 1 Abstract: This module is responsible for all reports from the
34 0034 1 ANALYZE/RMS_FILE command. Reports can be routed to a file
35 0035 1 and/or the terminal.
36 0036 1
37 0037 1
38 0038 1 Environment:
39 0039 1
40 0040 1 Author: Paul C. Anagnostopoulos, Creation Date: 18 February 1981
41 0041 1
42 0042 1 Modified By:
43 0043 1
44 0044 1 V03-009 DGB0055 Donald G. Blair 14-Jun-1984
45 0045 1 On ANLRMS$ OPENOUT error, rather than print the file
46 0046 1 spec from the /OUT qualifier (which may be null), print
47 0047 1 the expanded file spec derived therefrom.
48 0048 1
49 0049 1 V03-008 DGB0045 Donald G. Blair 08-May-1984
50 0050 1 Incorporate the routine ANL$EXIT_WITH_STATUS into the main
51 0051 1 routine ANL$RMS and add handling for ANL$WORST_ERROR
52 0052 1 to ANL$FORMAT_ERROR as part of fixing ANALYZRMS so
53 0053 1 it returns status correctly.
54 0054 1
55 0055 1 V03-007 RRB0003 Rowland R. Bradley 1-Jan-1984
56 0056 1 Correct "value required context" error in ANL$EXIT_WITH_STATUS
57 0057 1

```



58	0058	1	V03-006	PCA1012	Paul C. Anagnostopoulos	6-Apr-1983
59	0059	1		Add support for /NOOUTPUT qualifier.		
60	0060	1				
61	0061	1	V03-005	PCA1011	Paul C. Anagnostopoulos	1-Apr-1983
62	0062	1		Change the message prefix to ANLRMS\$ to ensure that		
63	0063	1		message symbols are unique across all ANALYZEs. This		
64	0064	1		is necessitated by the new merged message files.		
65	0065	1				
66	0066	1	V03-004	PCA1001	Paul C. Anagnostopoulos	4-Nov-1982
67	0067	1		Display the global buffer count for all files, not		
68	0068	1		just relative and indexed ones.		
69	0069	1		Add code to support the new /SUMMARY mode.		
70	0070	1				
71	0071	1	V03-003	PCA0031	Paul Anagnostopoulos	24-Mar-1982
72	0072	1		Fix error messages so they use the correct STV value.		
73	0073	1				
74	0074	1	V03-002	PCA0012	Paul Anagnostopoulos	16-Mar-1982
75	0075	1		Remove maximum record size restriction on report file.		
76	0076	1				
77	0077	1	V03-001	PCA0011	Paul Anagnostopoulos	16-Mar-1982
78	0078	1		Include new global buffer count when formatting the		
79	0079	1		report of the file attribute area.		
80	0080	1				--



```

82 0081 1 %sbttl 'Module Declarations'
83 0082 1
84 0083 1 | Libraries and Requires:
85 0084 1 |
86 0085 1
87 0086 1 | library 'lib';
88 0087 1 | require 'rmsreq';
89 0596 1
90 0597 1
91 0598 1 | Table of Contents:
92 0599 1 |
93 0600 1
94 0601 1 | forward routine
95 0602 1 |     anl$prepare_report_file: novalue,
96 0603 1 |     anl$report_page: novalue,
97 0604 1 |     anl$format_line: novalue,
98 0605 1 |     anl$format_skip: novalue,
99 0606 1 |     anl$format_error: novalue,
100 0607 1 |     anl$error_count: novalue,
101 0608 1 |     anl$format_flags: novalue,
102 0609 1 |     anl$format_hex: novalue,
103 0610 1 |     anl$format_protection_mask: novalue,
104 0611 1 |     anl$format_file_attributes: novalue;
105 0612 1
106 0613 1 |
107 0614 1 | External References:
108 0615 1 |
109 0616 1
110 0617 1 | external routine
111 0618 1 |     cli$get_value: addressing_mode(general),
112 0619 1 |     cli$present: addressing_mode(general),
113 0620 1 |     lib$lp_lines: addressing_mode(general),
114 0621 1 |     lib$put_output: addressing_mode(general),
115 0622 1 |     str$trim: addressing_mode(general);
116 0623 1
117 0624 1 | external
118 0625 1 |     anl$gb_mode: byte,
119 0626 1 |     anl$gl_fat: ref block[,byte];
120 0627 1
121 0628 1 |
122 0629 1 | Own Variables:
123 0630 1 |
124 0631 1 | To create the report file, we need a RAB, FAB, and NAM block. We also
125 0632 1 | need a second NAM block to act as the related NAM block.
126 0633 1
127 0634 1 | own
128 0635 1 |     own_described_buffer(expanded_spec,nam$c_maxrss),
129 0636 1 |     related_resultant_spec: block[nam$c_maxrss,byte],
130 0637 1 |     related_expanded_spec: block[nam$c_maxrss,byte],
131 0638 1
132 P 0639 1 |     related_nam: $nam(esa=related_expanded_spec,
133 P 0640 1 |         ess=nam$c_maxrss,
134 P 0641 1 |         rsa=related_resultant_spec,
135 0642 1 |         rss=nam$c_maxrss),
136 0643 1
137 P 0644 1 |     report_nam: $nam(rlf=related_nam,
138 P 0645 1 |         esa=expanded_spec+8,
```



```
: 139      0646 1      ess=nam$c_maxrss),
: 140      0647 1
: 141      0648 1      own_described_buffer(report_file_spec,nam$c_maxrss),
: 142      0649 1
: 143      P 0650 1      report_fab: $fab(fac=put,
: 144      P 0651 1          fop=ofp,
: 145      P 0652 1          nam=report_nam,
: 146      P 0653 1          org=seq,
: 147      P 0654 1          rat=cr,
: 148      0655 1          rfm=var),
: 149      0656 1
: 150      P 0657 1      report_rab: $rab(fab=report_fab,
: 151      0658 1          rac=seq);
: 152      0659 1
: 153      0660 1      ! The following variables are needed to format the report.
: 154      0661 1
: 155      0662 1      own
: 156      0663 1          generating_report: byte,
: 157      0664 1          report_heading_msg: long,
: 158      0665 1          own_described_buffer(input_file_spec,nam$c_maxrss),
: 159      0666 1          page_number: long,
: 160      0667 1          line_counter: signed long;
: 161      0668 1
: 162      0669 1      ! We need some variables for keeping track of errors. One tells us where
: 163      0670 1      ! the analysis report is going. We also count the number of errors.
: 164      0671 1
: 165      0672 1      own
: 166      0673 1          report_to_file: byte,
: 167      0674 1          error_count: long initial(0);
```



```
169 0675 1 %sbttl 'ANL$PREPARE_REPORT_FILE - Prepare Report File'
170 0676 1 ++
171 0677 1 Functional Description:
172 0678 1 This routine is called whenever we begin the analysis of a new
173 0679 1 file. On the first call, it creates a report file to receive
174 0680 1 the analysis. On subsequent calls, if any, it just starts a new
175 0681 1 report in the file.
176 0682 1
177 0683 1 Formal Parameters:
178 0684 1 heading_msg An optional message code specifying the report
179 0685 1 page heading message.
180 0686 1 input_spec The resultant spec of the input file we are analyzing.
181 0687 1
182 0688 1 Implicit Inputs:
183 0689 1 global data
184 0690 1
185 0691 1 Implicit Outputs:
186 0692 1 global data
187 0693 1
188 0694 1 Returned Value:
189 0695 1 none
190 0696 1
191 0697 1 Side Effects:
192 0698 1
193 0699 1 --
194 0700 1
195 0701 1
196 0702 2 global routine anl$prepare_report_file(heading_msg,input_spec): novalue = begin
197 0703 2
198 0704 2 bind
199 0705 2 input_spec_dsc = .input_spec: descriptor;
200 0706 2
201 0707 2 own
202 0708 2 first_call: byte initial(true);
203 0709 2
204 0710 2 local
205 0711 2 status: long;
206 0712 2
207 0713 2
208 0714 2
209 0715 2 ! Save the input file spec for use in the report page headings.
210 0716 2
211 0717 2 input_file_spec[len] = .input_spec_dsc[len];
212 0718 2 ch$move(.input_spec_dsc[len],.input_spec_dsc[ptr],.input_file_spec[ptr]);
213 0719 2
214 0720 2 ! See if we are to generate a report. If not, we can just leave.
215 0721 2
216 0722 2 generating_report = cli$present(describe('OUTPUT'));
217 0723 2 if not .generating_report then
218 0724 2 return;
219 0725 2
220 0726 2 ! If this is the first call, then we need to create the report file and
221 0727 2 ! prepare for one or more analysis reports.
222 0728 2
223 0729 3 if .first_call then (
224 0730 3
225 0731 3 ! We begin by obtaining the value of the /OUTPUT qualifier. This will
```



```
: 226      0732 3      ! tell us the name of the desired report file. Trim the name for use
: 227      0733 3      ! in error messages.
: 228      0734 3
: 229      0735 3      report_to_file = cli$get_value(describe('OUTPUT'),report_file_spec);
: 230      0736 3      str$trim(report_file_spec,report_file_spec,report_file_spec);
: 231      0737 3
: 232      0738 3      ! Now we split up depending on the mode of operation.
: 233      0739 3
: 234      0740 3      selectoneu .anl$gb_mode of set
: 235      0741 3
: 236      0742 3      [anl$k_check,
: 237      0743 3      anl$k_statistics,
: 238      0744 3      anl$k_summary]:
: 239      0745 3
: 240      0746 3      ! In these modes, the user specifies the name of the
: 241      0747 3      ! report file, and we use ANALYZE.ANL as the defaults.
: 242      0748 3      ! If the user didn't include a value on the /OUTPUT qualifier,
: 243      0749 3      ! then we just put the report on the terminal.
: 244      0750 3
: 245      0751 4      if .report_to_file then (
: 246      0752 4          report_fab[fab$l_fna] = .report_file_spec[ptr];
: 247      0753 4          report_fab[fab$b_fns] = .report_file_spec[len];
: 248      0754 4          report_fab[fab$l_dna] = uplit byte('ANALYZE.ANL');
: 249      0755 4          report_fab[fab$b_dns] = 11;
: 250      0756 4      ) else (
: 251      0757 4          report_fab[fab$l_fna] = uplit byte('SYS$OUTPUT');
: 252      0758 4          report_fab[fab$b_fns] = 10;
: 253      0759 3      );
: 254      0760 3
: 255      0761 3      [anl$k_fdl]:
: 256      0762 3
: 257      0763 3      ! In this mode, the user specifies the name of the FDL
: 258      0764 3      ! file, we use .FDL as the default, and we use a related
: 259      0765 3      ! name equal to the input file spec. This produces the
: 260      0766 3      ! standard related name situation where the output file
: 261      0767 3      ! has the same name as the input file.
: 262      0768 3
: 263      0769 3      ! To parse the input file name, we use the report FAB
: 264      0770 3      ! temporarily so we can do a $PARSE and a $SEARCH into
: 265      0771 3      ! the related NAM block.
: 266      0772 3
: 267      0773 4      (report_fab[fab$l_fna] = .input_spec_dsc[ptr];
: 268      0774 4      report_fab[fab$b_fns] = .input_spec_dsc[len];
: 269      0775 4      report_fab[fab$l_nam] = related_nam;
: 270      0776 4      status = $parse(fab=report_fab);
: 271      0777 4      check (.status, .status);
: 272      0778 4      status = $search(fab=report_fab);
: 273      0779 4      check (.status, .status);
: 274      0780 4
: 275      0781 4      ! Now we can set up the blocks for creation of the report file.
: 276      0782 4      ! The FAB specifies output file parse, as required.
: 277      0783 4
: 278      0784 4      report_fab[fab$l_fna] = .report_file_spec[ptr];
: 279      0785 4      report_fab[fab$b_fns] = .report_file_spec[len];
: 280      0786 4      report_fab[fab$l_dna] = uplit byte('.FDL');
: 281      0787 4      report_fab[fab$b_dns] = 4;
: 282      0788 3      report_fab[fab$l_nam] = report_nam;);
```



```

283 0789 3
284 0790 3
285 0791 3
286 0792 3
287 0793 3
288 0794 3
289 0795 3
290 0796 3
291 0797 4
292 0798 4
293 0799 4
294 0800 4
295 0801 4
296 0802 4
297 0803 3
298 0804 3
299 0805 3
300 0806 3
301 0807 3
302 0808 3
303 0809 3
304 0810 3
305 0811 3
306 0812 3
307 0813 3
308 0814 3
309 0815 3
310 0816 3
311 0817 3
312 0818 3
313 0819 3
314 0820 2
315 0821 2
316 0822 2
317 0823 2
318 0824 2
319 0825 2
320 0826 2
321 0827 2
322 0828 2
323 0829 1

```

```

[anl$k_interactive]:

! In this mode, the user specifies the name of the
! transcript file, and we use ANALYZE.ANL as the defaults.
! If the user didn't include a value on the /OUTPUT qualifier,
! then we don't produce a transcript.

if .report_to_file then (
    report_fab[fab$l_fna] = .report_file_spec[ptr];
    report_fab[fab$b_fns] = .report_file_spec[len];
    report_fab[fab$l_dna] = uplit byte('ANALYZE.ANL');
    report_fab[fab$b_dns] = 11;
) else
    return;

tes;

! Now we can create the report file and connect the RAB.

status = $create(fab=report_fab);
expanded_spec[len] = .report_nam[nam$b_esl];
check (.status, anlrm,$_openout,1,expanded_spec,.status,.report_fab[fab$l_stv]);
status = $connect(rab=report_rab);
check (.status, .status);

! Save the heading message code.

report_heading_msg = .heading_msg;

first_call = false;

);

! Begin the report by resetting the page number and starting a new page.

page_number = 0;
anl$report_page();

return;

end;

```

```

.TITLE  RMSREPORT  RMSREPORT - Handle Output for ANALYZE
        /RMS_FILE
.IDENT  \V04-000\
.PSECT  $PLITS$,NOWRT,NOEXE,2

.ASCII  \OUTPUT\
.BKLB   2
.LONG   6
.ADDRESS P.AAB
.ASCII  \OUTPUT\
.BKLB   2
.LONG   6
.ADDRESS P.AAD

```



4C	4E	41	2E	45	5A	59	4C	41	4E	41	00020	P.AAE:	.ASCII	\ANALYZE.ANL\	:
	54	55	50	54	55	4F	24	53	59	53	0002B	P.AAF:	.ASCII	\SYS\$OUTPUT\	:
							4C	44	46	2E	00035	P.AAG:	.ASCII	\.FDL\	:
4C	4E	41	2E	45	5A	59	4C	41	4E	41	00039	P.AAH:	.ASCII	\ANALYZE.ANL\	:

.PSECT \$OWNS\$,NOEXE,2

000000FF	00000	EXPANDED_SPEC:		
		.LONG	255	:
00000000	00004	.ADDRESS	EXPANDED_SPEC+8	:
	00008	.BLKB	255	:
	00107	.BLKB	1	:
	00108	RELATED_RESULTANT_SPEC:		:
		.BLKB	255	:
	00207	.BLKB	1	:
	00208	RELATED_EXPANDED_SPEC:		:
		.BLKB	255	:
	00307	.BLKB	1	:
02	00308	RELATED_NAM:		:
		.BYTE	2	:
60	00309	.BYTE	96	:
FF	0030A	.BYTE	-1	:
00	0030B	.BYTE	0	:
00000000	0030C	.ADDRESS	RELATED_RESULTANT_SPEC	:
	00	00310	.BYTE	0
	00	00311	.BYTE	0
	FF	00312	.BYTE	-1
	00	00313	.BYTE	0
00000000	00314	.ADDRESS	RELATED_EXPANDED_SPEC	:
00000000	00318	.LONG	0	:
0000#	0031C	.WORD	0[8]	:
0000#	0032C	.WORD	0[3]	:
0000#	00332	.WORD	0[3]	:
00000000	00338	.LONG	0	:
00000000	0033C	.LONG	0	:
	00	00340	.BYTE	0
	00	00341	.BYTE	0
	00	00342	.BYTE	0
	00	00343	.BYTE	0
	00	00344	.BYTE	0
	00	00345	.BYTE	0
	00#	00346	.BYTE	0[2]
00000000	00348	.LONG	0	:
00000000	0034C	.LONG	0	:
00000000	00350	.LONG	0	:
00000000	00354	.LONG	0	:
00000000	00358	.LONG	0	:
00000000	0035C	.LONG	0	:
00000000#	00360	.LONG	0[2]	:
02	00368	REPORT_NAM:		:
		.BYTE	2	:
60	00369	.BYTE	96	:
00	0036A	.BYTE	0	:
00	0036B	.BYTE	0	:
00000000	0036C	.LONG	0	:
	00	00370	.BYTE	0
	00	00371	.BYTE	0



```
FF 00372 .BYTE -1
00 00373 .BYTE 0
00000000' 00374 .ADDRESS EXPANDED_SPEC+8
00000000' 00378 .ADDRESS RELATED_NAM
0000# 0037C .WORD 0[8]
0000# 0038C .WORD 0[3]
0000# 00392 .WORD 0[3]
00000000 00398 .LONG 0
00000000 0039C .LONG 0
00 003A0 .BYTE 0
00 003A1 .BYTE 0
00 003A2 .BYTE 0
00 003A3 .BYTE 0
00 003A4 .BYTE 0
00 003A5 .BYTE 0
00# 003A6 .BYTE 0[2]
00000000 003A8 .LONG 0
00000000 003AC .LONG 0
00000000 003B0 .LONG 0
00000000 003B4 .LONG 0
00000000 003B8 .LONG 0
00000000 003BC .LONG 0
00000000# 003C0 .LONG 0[2]
000000FF 003C8 REPORT_FILE_SPEC:
00000000' 003CC .LONG 255
003D0 .ADDRESS REPORT_FILE_SPEC+8
004CF .BLKB 255
03 004D0 REPORT_FAB:
004D1 .BLKB 1
50 004D1 .BYTE 3
0000 004D2 .BYTE 80
20000000 004D4 .WORD 0
00000000 004D8 .LONG 536870912
00000000 004DC .LONG 0
00000000 004E0 .LONG 0
0000 004E4 .LONG 0
01 004E6 .WORD 0
00 004E7 .BYTE 1
00000000 004E8 .BYTE 0
00 004EC .LONG 0
00 004ED .BYTE 0
02 004EE .BYTE 2
02 004EF .BYTE 2
00000000 004F0 .LONG 0
00000000 004F4 .LONG 0
00000000' 004F8 .ADDRESS REPORT_NAM
00000000 004FC .LONG C
00000000 00500 .LONG 0
00 00504 .LONG 0
00 00505 .BYTE 0
0000 00506 .BYTE 0
00000000 00508 .WORD 0
0000 0050C .LONG 0
00 0050E .WORD 0
00 0050F .BYTE 0
00000000 00510 .BYTE 0
00000000 .LONG 0
```



```
00000000 00514 .LONG 0
0000 00518 .WORD 0
00 0051A .BYTE 0
00 0051B .BYTE 0
00000000 0051C .LONG 0
01 00520 REPORT_RAB:
00521 .BYTE 1
44 00521 .BYTE 68
0000 00522 .WORD 0
00000000 00524 .LONG 0
00000000 00528 .LONG 0
00000000 0052C .LONG 0
0000# 00530 .WORD 0[3]
0000 00536 .WORD 0
00000000 00538 .LONG 0
0000 0053C .WORD 0
00 0053E .BYTE 0
00 0053F .BYTE 0
0000 00540 .WORD 0
0000 00542 .WORD 0
00000000 00544 .LONG 0
00000000 00548 .LONG 0
00000000 0054C .LONG 0
00000000 00550 .LONG 0
00 00554 .BYTE 0
00 00555 .BYTE 0
00 00556 .BYTE 0
00 00557 .BYTE 0
00000000 00558 .LONG 0
00000000 0055C .ADDRESS REPORT_FAB
00000000 00560 .LONG 0
00564 GENERATING_REPORT:
00565 .BLKB 1
00568 REPORT_HEADING_MSG:
00568 .BLKB 3
0056C INPUT_FILE_SPEC:
000000FF 0056C .BLKB 4
00000000 00570 .LONG 255
00574 .ADDRESS INPUT_FILE_SPEC+8
00673 .BLKB 255
00674 PAGE_NUMBER:
00674 .BLKB 1
00678 LINE_COUNTER:
00678 .BLKB 4
0067C REPORT_TO_FILE:
0067C .BLKB 4
0067D .BLKB 1
00000000 00680 ERROR_COUNT:
00680 .BLKB 3
00680 .LONG 0
01 00684 FIRST_CALL:
00684 .BYTE 1

.EXTRN ANLRMSS_OK, ANLRMSS_ALLOC
.EXTRN ANLRMSS_ANYTHING
.EXTRN ANLRMSS_BACKUP, ANLRMSS_BKT
.EXTRN ANLRMSS_BKTAREA
```



```
.EXTRN ANLRM$$_BKT CHECK
.EXTRN ANLRM$$_BKT FLAGS
.EXTRN ANLRM$$_BKT FREE
.EXTRN ANLRM$$_BKT KEY, ANLRM$$_BKT LEVEL
.EXTRN ANLRM$$_BKT NEXT
.EXTRN ANLRM$$_BKT PTR SIZE
.EXTRN ANLRM$$_BKT RECID
.EXTRN ANLRM$$_BKT RECID3
.EXTRN ANLRM$$_BKT SAMPLE
.EXTRN ANLRM$$_BKT VBN FREE
.EXTRN ANLRM$$_BUCKET SIZE
.EXTRN ANLRM$$_CELL, ANLRM$$_CELL DATA
.EXTRN ANLRM$$_CELL FLAGS
.EXTRN ANLRM$$_CHECK HDG
.EXTRN ANLRM$$_CONTIG, ANLRM$$_CREATION
.EXTRN ANLRM$$_CTL SIZE
.EXTRN ANLRM$$_DATA REC
.EXTRN ANLRM$$_DATA BKT VBN
.EXTRN ANLRM$$_DUMP HEADING
.EXTRN ANLRM$$_EOF, ANLRM$$_ERROR COUNT
.EXTRN ANLRM$$_ERROR NONE
.EXTRN ANLRM$$_ERRORS, ANLRM$$_EXPIRATION
.EXTRN ANLRM$$_FILE ATTR
.EXTRN ANLRM$$_FILE HDR
.EXTRN ANLRM$$_FILE ID, ANLRM$$_FILE ORG
.EXTRN ANLRM$$_FILE SPEC
.EXTRN ANLRM$$_FLAG, ANLRM$$_GLOBAL BUF S
.EXTRN ANLRM$$_HEX DATA
.EXTRN ANLRM$$_HEX HEADING1
.EXTRN ANLRM$$_HEX HEADING2
.EXTRN ANLRM$$_IDX AREA
.EXTRN ANLRM$$_IDX AREA ALLOC
.EXTRN ANLRM$$_IDX AREA BKT SZ
.EXTRN ANLRM$$_IDX AREA NEXT
.EXTRN ANLRM$$_IDX AREA NO ALLOC
.EXTRN ANLRM$$_IDX AREA QTY
.EXTRN ANLRM$$_IDX AREA RECL
.EXTRN ANLRM$$_IDX AREA USED
.EXTRN ANLRM$$_IDX KEY, ANLRM$$_IDX KEY AREAS
.EXTRN ANLRM$$_IDX KEY BKT SZ
.EXTRN ANLRM$$_IDX KEY BYTES
.EXTRN ANLRM$$_IDX KEY TYPE
.EXTRN ANLRM$$_IDX KEY DATA VBN
.EXTRN ANLRM$$_IDX KEY FILL
.EXTRN ANLRM$$_IDX KEY FLAGS
.EXTRN ANLRM$$_IDX KEY KEYSZ
.EXTRN ANLRM$$_IDX KEY NAME
.EXTRN ANLRM$$_IDX KEY NEXT
.EXTRN ANLRM$$_IDX KEY MIN REC
.EXTRN ANLRM$$_IDX KEY NULL
.EXTRN ANLRM$$_IDX KEY POSS
.EXTRN ANLRM$$_IDX KEY ROOT LVL
.EXTRN ANLRM$$_IDX KEY ROOT VBN
.EXTRN ANLRM$$_IDX KEY SEGS
.EXTRN ANLRM$$_IDX KEY SIZES
.EXTRN ANLRM$$_IDX PRIM REC
.EXTRN ANLRM$$_IDX PRIM REC FLAGS
```



```
.EXTRN ANLRMSS_IDXPRIMRECID
.EXTRN ANLRMSS_IDXPRIMRECLN
.EXTRN ANLRMSS_IDXPRIMRECRRV
.EXTRN ANLRMSS_IDXPROAREAS
.EXTRN ANLRMSS_IDXPROLOG
.EXTRN ANLRMSS_IDXREC, ANLRMSS_IDXRECPTR
.EXTRN ANLRMSS_IDXSIDR
.EXTRN ANLRMSS_IDXSIDRDUPCNT
.EXTRN ANLRMSS_IDXSIDRFLAGS
.EXTRN ANLRMSS_IDXSIDRRECID
.EXTRN ANLRMSS_IDXSIDRPTREFLAGS
.EXTRN ANLRMSS_IDXSIDRPTREF
.EXTRN ANLRMSS_INTERCOMMAND
.EXTRN ANLRMSS_INTERHDG
.EXTRN ANLRMSS_LONGREC
.EXTRN ANLRMSS_MAXRECSIZE
.EXTRN ANLRMSS_NOBACKUP
.EXTRN ANLRMSS_NOEXPIRATION
.EXTRN ANLRMSS_NOSPANFILLER
.EXTRN ANLRMSS_PERFORM
.EXTRN ANLRMSS_PROLOGFLAGS
.EXTRN ANLRMSS_PROLOGVER
.EXTRN ANLRMSS_PROT, ANLRMSS_RECATTR
.EXTRN ANLRMSS_RECMT, ANLRMSS_RECLAIMBKT
.EXTRN ANLRMSS_RELBUCKET
.EXTRN ANLRMSS_RELEOFVBN
.EXTRN ANLRMSS_RELMAXREC
.EXTRN ANLRMSS_RELPROLOG
.EXTRN ANLRMSS_RELIAB, ANLRMSS_REVISION
.EXTRN ANLRMSS_STATHDG
.EXTRN ANLRMSS_SUMMARYHDG
.EXTRN ANLRMSS_OWNERUIC
.EXTRN ANLRMSS_JNL, ANLRMSS_AIJNL
.EXTRN ANLRMSS_BIJNL, ANLRMSS_ATJNL
.EXTRN ANLRMSS_ATTOP, ANLRMSS_BADCMD
.EXTRN ANLRMSS_BADPATH
.EXTRN ANLRMSS_BADVBN, ANLRMSS_DOWNHELP
.EXTRN ANLRMSS_DOWNPATH
.EXTRN ANLRMSS_EMPTYBKT
.EXTRN ANLRMSS_NODATA, ANLRMSS_NODOWN
.EXTRN ANLRMSS_NONEXT, ANLRMSS_NORECLAIMED
.EXTRN ANLRMSS_NORECS, ANLRMSS_NORRV
.EXTRN ANLRMSS_RESTDONE
.EXTRN ANLRMSS_STACKFULL
.EXTRN ANLRMSS_UNINITINDEX
.EXTRN ANLRMSS_FDLIDENT
.EXTRN ANLRMSS_FDLSYSTEM
.EXTRN ANLRMSS_FDLSOURCE
.EXTRN ANLRMSS_FDLFILE
.EXTRN ANLRMSS_FDLALLOC
.EXTRN ANLRMSS_FDLNOALLOC
.EXTRN ANLRMSS_FDLBESTTRY
.EXTRN ANLRMSS_FDLBUCKETSIZE
.EXTRN ANLRMSS_FDLCLUSTERSIZE
.EXTRN ANLRMSS_FDLCONTIG
.EXTRN ANLRMSS_FDLXTENSION
.EXTRN ANLRMSS_FDLGLOBALBUFS
```



```
.EXTRN ANLRMSS_FDLMAXRECORD
.EXTRN ANLRMSS_FDLFILENAME
.EXTRN ANLRMSS_FDLORG, ANLRMSS_FDLOWNER
.EXTRN ANLRMSS_FDLPROTECTION
.EXTRN ANLRMSS_FDLRECORD
.EXTRN ANLRMSS_FDLSPAN
.EXTRN ANLRMSS_FDLCC, ANLRMSS_FDLVFCsize
.EXTRN ANLRMSS_FDLFORMAT
.EXTRN ANLRMSS_FDLsize
.EXTRN ANLRMSS_FDLAREA
.EXTRN ANLRMSS_FDLKEY, ANLRMSS_FDLCHANGES
.EXTRN ANLRMSS_FDLdataAREA
.EXTRN ANLRMSS_FDLdataFILL
.EXTRN ANLRMSS_FDLdataKEYCOMP
.EXTRN ANLRMSS_FDLdataRECCOMP
.EXTRN ANLRMSS_FDLdups
.EXTRN ANLRMSS_FDLINDEXAREA
.EXTRN ANLRMSS_FDLINDEXCOMP
.EXTRN ANLRMSS_FDLINDEXFILL
.EXTRN ANLRMSS_FDL1INDEXAREA
.EXTRN ANLRMSS_FDLKEYNAME
.EXTRN ANLRMSS_FDLNORECS
.EXTRN ANLRMSS_FDLNULLKEY
.EXTRN ANLRMSS_FDLNULLVALUE
.EXTRN ANLRMSS_FDLPROLOG
.EXTRN ANLRMSS_FDLSEGLength
.EXTRN ANLRMSS_FDLSEGPOS
.EXTRN ANLRMSS_FDLSEGTYPE
.EXTRN ANLRMSS_FDLANALAREA
.EXTRN ANLRMSS_FDLRECL
.EXTRN ANLRMSS_FDLANALKEY
.EXTRN ANLRMSS_FDLdataKEYCOMP
.EXTRN ANLRMSS_FDLdataRECCOMP
.EXTRN ANLRMSS_FDLdataRECS
.EXTRN ANLRMSS_FDLdataSPACE
.EXTRN ANLRMSS_FDLDEPTH
.EXTRN ANLRMSS_FDLdupsPER
.EXTRN ANLRMSS_FDLIDXCOMP
.EXTRN ANLRMSS_FDLIDXFILL
.EXTRN ANLRMSS_FDLIDXSPACE
.EXTRN ANLRMSS_FDLIDL1RECS
.EXTRN ANLRMSS_FDLdataLENMEAN
.EXTRN ANLRMSS_FDLIDXLENMEAN
.EXTRN ANLRMSS_STATAREA
.EXTRN ANLRMSS_STATRECL
.EXTRN ANLRMSS_STATKEY
.EXTRN ANLRMSS_STATDEPTH
.EXTRN ANLRMSS_STATIDL1RECS
.EXTRN ANLRMSS_STATIDXLENMEAN
.EXTRN ANLRMSS_STATIDXSPACE
.EXTRN ANLRMSS_STATIDXFILL
.EXTRN ANLRMSS_STATIDXCOMP
.EXTRN ANLRMSS_STATdataRECS
.EXTRN ANLRMSS_STATdupsPER
.EXTRN ANLRMSS_STATdataLENMEAN
.EXTRN ANLRMSS_STATdataSPACE
.EXTRN ANLRMSS_STATdataFILL
```



```
.EXTRN ANLRMSS_STATDATAKEYCOMP
.EXTRN ANLRMSS_STATDATARECCOMP
.EXTRN ANLRMSS_STATEFFICIENCY
.EXTRN ANLRMSS_BADAREA1ST2
.EXTRN ANLRMSS_BADAREAABKTSIZE
.EXTRN ANLRMSS_BADAREA FIT
.EXTRN ANLRMSS_BADAREAID
.EXTRN ANLRMSS_BADAREANEXT
.EXTRN ANLRMSS_BADAREAROOT
.EXTRN ANLRMSS_BADAREAUSED
.EXTRN ANLRMSS_BADBKTAREAID
.EXTRN ANLRMSS_BADBKT CHECK
.EXTRN ANLRMSS_BADBKT FREE
.EXTRN ANLRMSS_BADBKT KEYID
.EXTRN ANLRMSS_BADBKT LEVEL
.EXTRN ANLRMSS_BADBKT ROOTBIT
.EXTRN ANLRMSS_BADBKTSAMPLE
.EXTRN ANLRMSS_BADCELL FIT
.EXTRN ANLRMSS_BADCHECKSUM
.EXTRN ANLRMSS_BADDATARECBITS
.EXTRN ANLRMSS_BADDATAREC FIT
.EXTRN ANLRMSS_BADDATARECPS
.EXTRN ANLRMSS_BAD3IDXKEY FIT
.EXTRN ANLRMSS_BADIDX LASTKEY
.EXTRN ANLRMSS_BADIDX ORDER
.EXTRN ANLRMSS_BADIDXRECBITS
.EXTRN ANLRMSS_BADIDXREC FIT
.EXTRN ANLRMSS_BADIDXRECPS
.EXTRN ANLRMSS_BADKEYAREAID
.EXTRN ANLRMSS_BADKEYDATABKT
.EXTRN ANLRMSS_BADKEYDATA FIT
.EXTRN ANLRMSS_BADKEYDATATYPE
.EXTRN ANLRMSS_BADKEYIDXBKT
.EXTRN ANLRMSS_BADKEY FILL
.EXTRN ANLRMSS_BADKEY FIT
.EXTRN ANLRMSS_BADKEYREF ID
.EXTRN ANLRMSS_BADKEYROOTLEVEL
.EXTRN ANLRMSS_BADKEYSEG COUNT
.EXTRN ANLRMSS_BADKEYSEGVEC
.EXTRN ANLRMSS_BADKEYSUMMARY
.EXTRN ANLRMSS_BADREADNOPAR
.EXTRN ANLRMSS_BADREADPAR
.EXTRN ANLRMSS_BADSIDRDUPCT
.EXTRN ANLRMSS_BADSIDRPTRFIT
.EXTRN ANLRMSS_BADSIDRPTSZ
.EXTRN ANLRMSS_BADSIDR SIZE
.EXTRN ANLRMSS_BADSTREAMEOF
.EXTRN ANLRMSS_BADVBNFREE
.EXTRN ANLRMSS_BKTLOOP
.EXTRN ANLRMSS_EXTENDERR
.EXTRN ANLRMSS_FLAGERROR
.EXTRN ANLRMSS_MISSINGBKT
.EXTRN ANLRMSS_NOTOK, ANLRMSS_SPANERROR
.EXTRN ANLRMSS_TOOMANYRECS
.EXTRN ANLRMSS_UNWIND, ANLRMSS_VFCTOOSHORT
.EXTRN ANLRMSS_CACHEFULL
.EXTRN ANLRMSS_CACHERELFAIL
```



				.EXTRN ANLRMSS\$ FACILITY		
				.EXTRN CLISGET-VALUE, CLISPRESENT		
				.EXTRN LIB\$LP LINES, LIB\$PUT-OUTPUT		
				.EXTRN STR\$TRIM, ANL\$GB MODE		
				.EXTRN ANL\$GL FAT, SYSSPARSE		
				.EXTRN SYSSSEARCH, SYSSCREATE		
				.EXTRN SYSSCONNECT		
				.PSECT \$CODE\$,NOWRT,2		
				.ENTRY ANL\$PREPARE_REPORT_FILE, Save R2,R3,R4,R5,-		0702
				R6,R7,R8,R9		
				MOVAB P.AAA, R9		
				MOVAB LIB\$SIGNAL, R8		
				MOVAB REPORT_FILE_SPEC, R7		
				MOVL INPUT_SPEC, R6		0705
				MOVW (R6), INPUT_FILE_SPEC		0717
				MOVC3 (R6), @4(R6), @INPUT_FILE_SPEC+4		0718
				PUSHL R9		0722
				CALLS #1, CLISPRESENT		
				MOVB R0, GENERATING_REPORT		
				BLBS GENERATING_REPORT, 1\$		0723
				RET		
				BLBS FIRST_CALL, 2\$		0729
				BRW 14\$		
				PUSHL R7		0735
				PUSHAB P.AAC		
				CALLS #2, CLISGET-VALUE		
				MOVB R0, REPORT_TO_FILE		
				PUSHL R7		0736
				PUSHL R7		
				PUSHL R7		
				CALLS #3, STR\$TRIM		
				MOVZBL ANL\$GB_MODE, R0		0740
				CMPB R0, #1		0742
				BEQL 3\$		
				CMPB R0, #4		
				BLSSU 5\$		
				CMPB R0, #5		
				BGTRU 5\$		
				BLBC REPORT_TO_FILE, 4\$		0751
				MOVL REPORT_FILE_SPEC+4, REPORT_FAB+44		0752
				MOVB REPORT_FILE_SPEC, REPORT_FAB+52		0753
				MOVAB P.AAE, REPORT_FAB+48		0754
				BRW 10\$		0755
				MOVAB P.AAF, REPORT_FAB+44		0757
				MOVB #10, REPORT_FAB+52		0758
				BRB 8\$		0751
				CMPB R0, #2		0761
				BNEQ 9\$		
				MOVL 4(R6), REPORT_FAB+44		0773
				MOVB (R6), REPORT_FAB+52		0774
				MOVAB RELATED_NAM, REPORT_FAB+40		0775
				PUSHAB REPORT_FAB		0776
				CALLS #1, SYSSPARSE		
				MOVL R0, STATUS		
				BLBS STATUS, 6\$		0777

  

				03FC 00000		
	59	0000'	CF	9E	00002	
	58	00000000G	00	9E	00007	
	57	0000'	CF	9E	0000E	
	56	08	AC	D0	00013	
01A8	D7	01A4	C7	66	B0	00017
		04	B6	66	28	0001C
				59	DD	00023
	00000000G		00	01	FB	00025
	019C		C7	50	90	0002C
			01	019C	C7	E8 00031
					04	00036
			03	02BC	C7	E8 00037 1\$:
				0125	31	0003C
				57	DD	0003F 2\$:
				10	A9	9F 00041
	00000000G		00	02	FB	00044
	02B4		C7	50	90	0004B
				57	DD	00050
				57	DD	00052
				57	DD	00054
	00000000G		00	03	FB	00056
			50	0000G	CF	9A 0005D
			01		50	91 00062
					0A	13 00065
			04		50	91 00067
					2B	1F 0006A
			05		50	91 0006C
					26	1A 0006F
			14	02B4	C7	E9 00071 3\$:
	0134		C7	04	A7	D0 00076
	013C		C7		67	90 0007C
	0138		C7	18	A9	9E 00081
				0089	31	00087
	0134		C7	23	A9	9E 0008A 4\$:
	013C		C7		0A	90 00090
					5F	11 00095
			02		50	91 00097 5\$:
					5C	12 0009A
	0134		C7	04	A6	D0 0009C
	013C		C7		66	90 000A2
	0130		C7	FF40	C7	9E 000A7
				0108	C7	9F 000AE
	00000000G		00		01	FB 000B2
			52		50	D0 000B9
			05		52	E8 000BC



	68		52	DD	000BF	PUSHL	STATUS	:
			01	FB	000C1	CALLS	#1, LIB\$SIGNAL	:
		0108	C7	9F	000C4	PUSHAB	REPORT_FAB	0778
00000000G	00		01	FB	000C8	CALLS	#1, SY\$SEARCH	:
	52		50	D0	000CF	MOVL	R0, STATUS	:
	05		52	E8	000D2	BLBS	STATUS, 7\$	0779
			52	DD	000D5	PUSHL	STATUS	:
	68		01	FB	000D7	CALLS	#1, LIB\$SIGNAL	:
0134	C7	04	A7	D0	000DA	MOVL	REPORT_FILE_SPEC+4, REPORT_FAB+44	0784
013C	C7		67	90	000E0	MOVB	REPORT_FILE_SPEC, REPORT_FAB+52	0785
0138	C7	2D	A9	9E	000E5	MOVAB	P.AAG, REPORT_FAB+48	0786
013D	C7		04	90	000EB	MOVB	#4, REPORT_FAB+53	0787
0130	C7	A0	A7	9E	000F0	MOVAB	REPORT_NAM, REPORT_FAB+40	0788
			20	11	000F6	BRB	11\$	0740
	03		50	91	000F8	CMPB	R0, #3	0790
			1B	12	000FB	BNEQ	11\$	:
	68	02B4	C7	E9	000FD	BLBC	REPORT_TO_FILE, 15\$	0797
0134	C7	04	A7	D0	00102	MOVL	REPORT_FILE_SPEC+4, REPORT_FAB+44	0798
013C	C7		67	90	00108	MOVB	REPORT_FILE_SPEC, REPORT_FAB+52	0799
0138	C7	31	A9	9E	0010D	MOVAB	P.AAH, REPORT_FAB+48	0800
013D	C7		0B	90	00113	MOVB	#11, REPORT_FAB+53	0801
		0108	C7	9F	00118	PUSHAB	REPORT_FAB	0809
00000000G	00		01	FB	0011C	CALLS	#1, SY\$CREATE	:
	52		50	D0	00123	MOVL	R0, STATUS	:
FC38	C7	AB	A7	9B	00126	MOVZBW	REPORT_NAM+11, EXPANDED_SPEC	0810
	15		52	E8	0012C	BLBS	STATUS, 12\$	0811
		0114	C7	DD	0012F	PUSHL	REPORT_FAB+12	:
			52	DD	00133	PUSHL	STATUS	:
		FC38	C7	9F	00135	PUSHAB	EXPANDED_SPEC	:
			01	DD	00139	PUSHL	#1	:
		00B110A4	8F	DD	0013B	PUSHL	#11604132	:
	68		05	FB	00141	CALLS	#5, LIB\$SIGNAL	:
		0158	C7	9F	00144	PUSHAB	REPORT_RAB	0812
00000000G	00		01	FB	00148	CALLS	#1, SY\$CONNECT	:
	52		50	D0	0014F	MOVL	R0, STATUS	:
	05		52	E8	00152	BLBS	STATUS, 13\$	0813
			52	DD	00155	PUSHL	STATUS	:
	68		01	FB	00157	CALLS	#1, LIB\$SIGNAL	:
01A0	C7	04	AC	D0	0015A	MOVL	HEADING_MSG, REPORT_HEADING_MSG	0817
		02BC	C7	94	00160	CLRB	FIRST_CALL	0819
		02AC	C7	D4	00164	CLRL	PAGE_NUMBER	0824
0000V	CF		00	FB	00168	CALLS	#0, ANL\$REPORT_PAGE	0825
			04	0016D	15\$:	RET		0829

; Routine Size: 366 bytes, Routine Base: \$CODE\$ + 0000



```
325 0830 1 %sbttl 'ANL$REPORT_PAGE - Eject Page in Report'
326 0831 1 ++
327 0832 1 Functional Description:
328 0833 1 This routine is called to eject the page in a report and print
329 0834 1 the heading on the new page.
330 0835 1
331 0836 1 Formal Parameters:
332 0837 1 none
333 0838 1
334 0839 1 Implicit Inputs:
335 0840 1 global data
336 0841 1
337 0842 1 Implicit Outputs:
338 0843 1 global data
339 0844 1
340 0845 1 Returned Value:
341 0846 1 none
342 0847 1
343 0848 1 Side Effects:
344 0849 1
345 0850 1 --
346 0851 1
347 0852 1
348 0853 2 global routine anl$report_page: novalue = begin
349 0854 2
350 0855 2
351 0856 2 ! Since we are starting a new page, reset the line counter.
352 0857 2
353 0858 2 line_counter = lib$lp_lines() - 7;
354 0859 2
355 0860 2 ! Now we can eject and print the heading line. Don't do this if the
356 0861 2 ! current heading message is zero - page headers are not desired.
357 0862 2
358 0863 3 if .report_heading_msg nequ 0 then (
359 0864 3 anl$format_line(-1,0,anlrms$_anything,describe(%char(formfeed)));
360 0865 3
361 0866 3 increment (page_number);
362 0867 3 anl$format_line(-1,0,.report_heading_msg,0,.page_number);
363 0868 3 anl$format_line(-1,0,anlrms$_anything,input_file_spec);
364 0869 3 anl$format_skip(-1);
365 0870 3 anl$format_skip(-1);
366 0871 2 );
367 0872 2
368 0873 2 return;
369 0874 2
370 0875 1 end;
```

.PSECT \$PLIT\$,NOWRT,NOEXE,2

```
OC 00044 P.AAJ: .ASCII <12>
00000001 00045 .BLKB 3
00000000 00048 P.AAI: .LONG 1
00000000 0004C .ADDRESS P.AAJ
```



				000C 00000	.PSECT \$CODE\$,NOWRT,2	
	53	0000V	CF	9E 00002	.ENTRY ANL\$REPORT_PAGE, Save R2,R3	: 0853
	52	00000000G	8F	D0 00007	MOVAB ANL\$FORMAT_LINE, R3	:
00000000G	00		00	FB 0000E	MOVL #ANLRMS\$ ANYTHING, R2	:
0000'	CF	F9	A0	9E 00015	CALLS #0, LIB\$CP_LINES	: 0858
		0000'	CF	D5 0001B	MOVAB -7(R0), LINE_COUNTER	:
			42	13 0001F	TSTL REPORT_HEADING_MSG	: 0863
		0000'	CF	9F 00021	BEQL 1\$	:
			52	DD 00025	PUSHAB P.AAI	: 0864
			7E	D4 00027	PUSHL R2	:
7E			01	CE 00029	CLRL -(SP)	:
63			04	FB 0002C	MNEGL #1, -(SP)	:
		0000'	CF	D6 0002F	CALLS #4, ANL\$FORMAT_LINE	:
		0000'	CF	DD 00033	INCL PAGE_NUMBER	: 0866
			7E	D4 00037	PUSHL PAGE_NUMBER	: 0867
		0000'	CF	DD 00039	CLRL -(SP)	:
			7E	D4 0003D	PUSHL REPORT_HEADING_MSG	:
7E			01	CE 0003F	CLRL -(SP)	:
63			05	FB 00042	MNEGL #1, -(SP)	:
		0000'	CF	9F 00045	CALLS #5, ANL\$FORMAT_LINE	:
			52	DD 00049	PUSHAB INPUT_FILE_SPEC	: 0868
			7E	D4 0004B	PUSHL R2	:
7E			01	CE 0004D	CLRL -(SP)	:
63			04	FB 00050	MNEGL #1, -(SP)	:
7E			01	CE 00053	CALLS #4, ANL\$FORMAT_LINE	:
0000V	CF		01	FB 00056	MNEGL #1, -(SP)	: 0869
7E			01	CE 0005B	CALLS #1, ANL\$FORMAT_SKIP	:
0000V	CF		01	FB 0005E	MNEGL #1, -(SP)	: 0870
			04	00063 1\$:	CALLS #1, ANL\$FORMAT_SKIP	:
					RET	: 0875

; Routine Size: 100 bytes, Routine Base: \$CODE\$ + 016E



```
: 372      0876 1 %sbttl 'ANL$FORMAT_LINE - Format a Line of the Report'
: 373      0877 1 ++
: 374      0878 1 Functional Description:
: 375      0879 1 This routine is called to format a line and place it in the current
: 376      0880 1 report file. It also goes to the terminal if this is an interactive
: 377      0881 1 session.
: 378      0882 1
: 379      0883 1 Formal Parameters:
: 380      0884 1 widow_control Controls widowning as follows:
: 381      0885 1 positive specifies number of lines that
: 382      0886 1 must remain on the page.
: 383      0887 1 zero doesn't matter how many lines.
: 384      0888 1 negative Same as zero, but don't send
: 385      0889 1 the line to the screen.
: 386      0890 1 indent_level The number of tab stops to indent the line.
: 387      0891 1 template_msg The status code of the message defining the line
: 388      0892 1 template.
: 389      0893 1 fao1... $FAO arguments to fill into the message.
: 390      0894 1
: 391      0895 1 Implicit Inputs:
: 392      0896 1 global data
: 393      0897 1
: 394      0898 1 Implicit Outputs:
: 395      0899 1 global data
: 396      0900 1
: 397      0901 1 Returned Value:
: 398      0902 1 none
: 399      0903 1
: 400      0904 1 Side Effects:
: 401      0905 1
: 402      0906 1 --
: 403      0907 1
: 404      0908 1
: 405      0909 2 global routine anl$format_line(widow_control,indent_level,template_msg,fao1): novalue = begin
: 406      0910 2
: 407      0911 2 local
: 408      0912 2 status: long;
: 409      0913 2
: 410      0914 2
: 411      0915 2 ! If we aren't generating a report, then drop this line in the bit bucket.
: 412      0916 2
: 413      0917 2 if not .generating_report then
: 414      0918 2 return;
: 415      0919 2
: 416      0920 2 ! First we obtain the text of the template message.
: 417      0921 2
: 418      0922 3 begin
: 419      0923 3 local
: 420      0924 3 local_described_buffer(template_buf,nam$c_maxrss);
: 421      0925 3
: 422      P 0926 3 status = $getmsg(msgid=.template_msg,
: 423      P 0927 3 msglen=template_buf,
: 424      P 0928 3 bufadr=template_buf,
: 425      0929 3 flags=%b'0001');
: 426      0930 3 check (.status,.status);
: 427      0931 3
: 428      0932 3 ! Now we can plug the $FAO arguments into the message template.
```



```

: 429      0933 3
: 430      0934 4 begin
: 431      0935 4 local
: 432      0936 4         local_described_buffer(result_buf,132);
: 433      0937 4
: 434      P 0938 4 status = $faol(ctrstr=template_buf,
: 435      P 0939 4         outlen=result_buf,
: 436      P 0940 4         outbuf=result_buf,
: 437      0941 4         prmlst=faol);
: 438      0942 4 check (.status,.status);
: 439      0943 4
: 440      0944 4 ! Prefix the resulting text with enough tabs to effect the indentation.
: 441      0945 4
: 442      0946 4 ch$move(.result_buf[len],.result_buf[ptr],.result_buf[ptr]+.indent_level);
: 443      0947 4 result_buf[len]=.result_buf[len]+.indent_level;
: 444      0948 4 ch$fil[(%char(tab),.indent_level,.result_buf[ptr]);
: 445      0949 4
: 446      0950 4 ! There are two cases for widow control. If zero, then only eject if we
: 447      0951 4 ! are out of lines. If positive, then eject if there are not said number
: 448      0952 4 ! of lines left on the page.
: 449      0953 4
: 450      0954 4 if (.widow_control leq 0 and .line_counter leq 0) or
: 451      0955 4     (.widow_control geq 1 and .line_counter lss .widow_control) then
: 452      0956 4     an[$report_page()];
: 453      0957 4
: 454      0958 4 ! If there is a current report file, put the line into it. Also account
: 455      0959 4 ! for the line on the page.
: 456      0960 4
: 457      0961 5 if .report_rab[rab$w_isi] negu 0 then (
: 458      0962 5     report_rab[rab$w_rsz] = .result_buf[len];
: 459      0963 5     report_rab[rab$l_rbf] = .result_buf[ptr];
: 460      0964 5     status = $put(rab=report_rab);
: 461      0965 5     check (.status, anlrm$writeerr,1,report_file_spec,.status,.report_rab[rab$l_stv]);
: 462      0966 5     decrement (line_counter);
: 463      0967 4 );
: 464      0968 4
: 465      0969 4 ! If we are doing an interactive session, also put the line onto the screen.
: 466      0970 4 ! However, lines with widow control of -1 are not displayed.
: 467      0971 4
: 468      0972 5 if .anl$gb_mode eqv anl$k_interactive and .widow_control geq 0 then (
: 469      0973 5     status = lib$put_output(result_buf);
: 470      0974 5     check (.status,.status);
: 471      0975 4 );
: 472      0976 4
: 473      0977 3 end;
: 474      0978 2 end;
: 475      0979 2
: 476      0980 2 return;
: 477      0981 2
: 478      0982 1 end;
```

```
.EXTRN SYS$GETMSG, SYS$FAOL
.EXTRN SYS$PUT
```

01FC 00000

.ENTRY ANL\$FORMAT\_LINE, Save R2,R3,R4,R5,R6,R7,R8 ; 0909



		58	00000000G	00	9E	00002	MOVAB	LIB\$SIGNAL, R8	
		57	0000	CF	9E	00009	MOVAB	LINE_COUNTER, R7	
		5E	FE6C	CE	9E	0000E	MOVAB	-4047SP, SP	
		01	FE6C	C7	E8	00013	BLBS	GENERATING_REPORT, 1\$	0917
					04	00018	RET		
	008C	CE	FF	8F	9A	00019	1\$: MOVZBL	#255, TEMPLATE_BUF	0924
	0090	CE	0094	CE	9E	0001F	MOVAB	TEMPLATE_BUF+8, TEMPLATE_BUF+4	
		7E		01	7D	00026	MOVQ	#1, -(SP)	0929
			0094	CE	9F	00029	PUSHAB	TEMPLATE_BUF	
			0098	CE	9F	0002D	PUSHAB	TEMPLATE_BUF	
			0C	AC	DD	00031	PUSHL	TEMPLATE_MSG	
	00000000G	00		05	FB	00034	CALLS	#5, SYS\$GETMSG	
		56		50	D0	0003B	MOVL	R0, STATUS	
		05		56	E8	0003E	BLBS	STATUS, 2\$	0930
				56	DD	00041	PUSHL	STATUS	
		68		01	FB	00043	CALLS	#1, LIB\$SIGNAL	
		6E	84	8F	9A	00046	2\$: MOVZBL	#132, RESULT_BUF	0936
	04	AE	08	AE	9E	0004A	MOVAB	RESULT_BUF+8, RESULT_BUF+4	
			10	AC	9F	0004F	PUSHAB	FA01	0941
			04	AE	9F	00052	PUSHAB	RESULT_BUF	
			08	AE	9F	00055	PUSHAB	RESULT_BUF	
			0098	CE	9F	00058	PUSHAB	TEMPLATE_BUF	
	00000000G	00		04	FB	0005C	CALLS	#4, SYS\$FAOL	
		56		50	D0	00063	MOVL	R0, STATUS	
		05		56	E8	00066	BLBS	STATUS, 3\$	0942
				56	DD	00069	PUSHL	STATUS	
		68		01	FB	0006B	CALLS	#1, LIB\$SIGNAL	
	50	04	AE	08	AC	C1 0006E	3\$: ADDL3	INDENT_LEVEL, RESULT_BUF+4, R0	0946
	60	04	BE		6E	28 00074	MOVC3	RESULT_BUF, @RESULT_BUF+4, (R0)	
			6E	08	AC	A0 00079	ADDW2	INDENT_LEVEL, RESULT_BUF	0947
08	AC	09	6E		00	2C 0007D	MOVC5	#0, (SP), #9, INDENT_LEVEL, @RESULT_BUF+4	0948
				04	BE	00083			
		52	04	AC	D0	00085	MOVL	WIDOW_CONTROL, R2	0954
				04	14	00089	BGTR	4\$	
				67	D5	0008B	TSTL	LINE_COUNTER	
				09	15	0008D	BLEQ	5\$	
				52	D5	0008F	4\$: TSTL	R2	0955
				0A	15	00091	BLEQ	6\$	
		52		67	D1	00093	CMPL	LINE_COUNTER, R2	
				05	18	00096	BGEQ	6\$	
	FEFF	CF		00	FB	00098	5\$: CALLS	#0, ANL\$REPORT_PAGE	0956
			FEAA	C7	B5	0009D	6\$: TSTW	REPORT_RAB+2	0961
				33	13	000A1	BEQL	8\$	
	FECA	C7		6E	B0	000A3	MOVW	RESULT_BUF, REPORT_RAB+34	0962
	FED0	C7	04	AE	D0	000A8	MOVL	RESULT_BUF+4, REPORT_RAB+40	0963
			FEA8	C7	9F	000AE	PUSHAB	REPORT_RAB	0964
	00000000G	00		01	FB	000B2	CALLS	#1, SYS\$PUT	
		56		50	D0	000B9	MOVL	R0, STATUS	
		15		56	E8	000BC	BLBS	STATUS, 7\$	0965
			FEB4	C7	DD	000BF	PUSHL	REPORT_RAB+12	
				56	DD	000C3	PUSHL	STATUS	
			FD50	C7	9F	000C5	PUSHAB	REPORT_FILE_SPEC	
				01	DD	000C9	PUSHL	#1	
		68	00B110D4	8F	DD	000CB	PUSHL	#11604180	
				05	FB	000D1	CALLS	#5, LIB\$SIGNAL	
				67	D7	000D4	7\$: DECL	LINE_COUNTER	0966
		03	0000G	CF	91	000D6	8\$: CMPB	ANL\$GB_MODE, #3	0972



RMSREPORT - Handle Output for ANALYZE/RMS\_FILE  
ANL\$FORMAT\_LINE - Format a Line of the Report

E 3  
16-Sep-1984 00:10:49  
14-Sep-1984 11:53:01

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[ANALYZ.SRC]RMSREPORT.B32;1

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		18	12	000DB	BNEQ	9\$
		52	D5	000DD	TSTL	R2
		14	19	000DF	BLSS	9\$
		5E	DD	000E1	PUSHL	SP
00000000G	00	01	FB	000E3	CALLS	#1, LIB\$PUT_OUTPUT
	56	50	D0	000EA	MOVL	R0, STATUS
	05	56	E8	000ED	BLBS	STATUS, 9\$
		56	DD	000F0	PUSHL	STATUS
	68	01	FB	000F2	CALLS	#1, LIB\$SIGNAL
			04	000F5	9\$: RET	

0973  
0974  
0982

; Routine Size: 246 bytes, Routine Base: \$CODE\$ + 01D2



```
: 480 0983 1 %sbttl 'ANL$FORMAT_SKIP - Skip a Line in Report'
: 481 0984 1 ++
: 482 0985 1 Functional Description:
: 483 0986 1 This routine can be called to skip a line in the current report.
: 484 0987 1
: 485 0988 1 Formal Parameters:
: 486 0989 1 widow_control See ANL$FORMAT_LINE
: 487 0990 1
: 488 0991 1 Implicit Inputs:
: 489 0992 1 global data
: 490 0993 1
: 491 0994 1 Implicit Outputs:
: 492 0995 1 global data
: 493 0996 1
: 494 0997 1 Returned Value:
: 495 0998 1 none
: 496 0999 1
: 497 1000 1 Side Effects:
: 498 1001 1
: 499 1002 1 --
: 500 1003 1
: 501 1004 1
: 502 1005 2 global routine anl$format_skip(widow_control): novalue = begin
: 503 1006 2
: 504 1007 2
: 505 1008 2 ! Just call FORMAT_LINE with a blank line.
: 506 1009 2
: 507 1010 2 anl$format_line(.widow_control,0,anlrms$_anything,describe(''));
: 508 1011 2
: 509 1012 2 return;
: 510 1013 2
: 511 1014 1 end;
```

.PSECT \$SPLIT\$,NOWRT,NOEXE,2

```
00000000 00050 P.AAL: .BLKB 0
00000000 00050 P.AAK: .LONG 0
00000000 00054 .ADDRESS P.AAL
```

.PSECT \$CODE\$,NOWRT,2

```
0000' 0000 00000
00000000G CF 9F 00002
8F DD 00006
7E D4 0000C
04 AC DD 0000E
FEF4 CF 04 FB 00011
04 00016
```

```
.ENTRY ANL$FORMAT_SKIP, Save nothing
PUSHAB P.AAK
PUSHL #ANLRMS$_ANYTHING
CLRL -(SP)
PUSHL WIDOW CONTROL
CALLS #4, ANL$FORMAT_LINE
RET
```

:  
:  
:

: 1005  
: 1010  
:  
:  
:  
:  
: 1014

; Routine Size: 23 bytes, Routine Base: \$CODE\$ + 02C8



```

513 1015 1 %sbttl 'ANL$FORMAT_ERROR - Put Error Message in Report'
514 1016 1 ++
515 1017 1 Functional Description:
516 1018 1 This routine is called to format an error message into the report
517 1019 1 file.
518 1020 1
519 1021 1 Formal Parameters:
520 1022 1 error_msg Status code for the error message.
521 1023 1 fao1... $FAO substitution parameters for the message.
522 1024 1
523 1025 1 Implicit Inputs:
524 1026 1 global data
525 1027 1
526 1028 1 Implicit Outputs:
527 1029 1 global data
528 1030 1
529 1031 1 Returned Value:
530 1032 1 none
531 1033 1
532 1034 1 Side Effects:
533 1035 1 anl$worst_error may be set to a new condition value.
534 1036 1 error_count is incremented.
535 1037 1
536 1038 1 --
537 1039 1
538 1040 1
539 1041 2 global routine anl$format_error(error_msg, fao1, fao2, fao3, fao4): novalue = begin
540 1042 2
541 1043 2 external
542 1044 2 anl$worst_error;
543 1045 2
544 1046 2 bind
545 1047 2 flag_string = describe('*** ');
546 1048 2
547 1049 2 builtin
548 1050 2 actualcount;
549 1051 2
550 1052 2 ! We case on the number of $FAO parameters and call ANL$FORMAT_LINE to
551 1053 2 ! do the work. In all cases, however, we add our own first parameter,
552 1054 2 ! which is the error message flag string.
553 1055 2
554 1056 2 case actualcount() from 1 to 5 of set
555 1057 2 [1]: anl$format_line(0,0,.error_msg,flag_string);
556 1058 2 [2]: anl$format_line(0,0,.error_msg,flag_string,.fao1);
557 1059 2 [3]: anl$format_line(0,0,.error_msg,flag_string,.fao1,.fao2);
558 1060 2 [4]: anl$format_line(0,0,.error_msg,flag_string,.fao1,.fao2,.fao3);
559 1061 2 [5]: anl$format_line(0,0,.error_msg,flag_string,.fao1,.fao2,.fao3,.fao4);
560 1062 2 tes;
561 1063 2
562 1064 2 ! Keep track of the number of errors reported. Also keep track of
563 1065 2 ! most severe error which has occurred.
564 1066 2
565 1067 2 increment (error_count);
566 1068 2 if severity_level (.error_msg) gtr
567 1069 3 severity_level (.anl$worst_error) ! If higher than watermark
568 1070 2 then anl$worst_error = .error_msg; ! -then set new worst error
569 1071 2
```



: 570  
: 571  
: 572

1072 2 return;  
1073 2  
1074 1 end;

```
.PSECT $SPLITS$,NOWRT,NOEXE,2

20 20 2A 2A 2A 00058 P.AAN: .ASCII \*** \
                                0005D .BLKB 3
                                00060 P.AAM: .LONG 5
                                00064 .ADDRESS P.AAN

FLAG_STRING= P.AAM
              .EXTRN ANL$WORST_ERROR

.PSECT $CODE$,NOWRT,2

.ENTRY ANL$FORMAT_ERROR, Save R2,R3,R4,R5
MOVAB FLAG_STRING, R5
MOVAB ANL$FORMAT_LINE, R4
MOVL ERROR_MSG, R2
CASEB (AP), #1, #4
.WORD 2$-1$,-
      3$-1$,-
      4$-1$,-
      5$-1$,-
      6$-1$,-
      #^M<R2,R5>
      -(SP)
CALLS #4, ANL$FORMAT_LINE
BRB 7$
PUSHL FA01
PUSHR #^M<R2,R5>
CLRQ -(SP)
CALLS #5, ANL$FORMAT_LINE
BRB 7$
MOVQ FA01, -(SP)
PUSHR #^M<R2,R5>
CLRQ -(SP)
CALLS #6, ANL$FORMAT_LINE
BRB 7$
MOVQ FA02, -(SP)
PUSHL FA01
PUSHR #^M<R2,R5>
CLRQ -(SP)
CALLS #7, ANL$FORMAT_LINE
BRB 7$
MOVQ FA03, -(SP)
MOVQ FA01, -(SP)
PUSHR #^M<R2,R5>
CLRQ -(SP)
CALLS #8, ANL$FORMAT_LINE
INCL ERROR_COUNT
MOVL R2, TMP_CODE
EXTZV #0, #3, TMP_CODE, R1
EXTZV #0, #1, TMP_CODE, R0
```

002C 04 001F 0013 0000' CF 9E 00002  
FEF8 CF 9E 00007  
04 AC D0 0000C  
01 6C 8F 00010  
000A 00014 1\$:  
003C 0001C

24 BB 0001E 2\$:  
7E 7C 00020  
64 04 FB 00022  
38 11 00025  
08 AC DD 00027 3\$:  
24 BB 0002A  
7E 7C 0002C  
64 05 FB 0002E  
2C 11 00031  
7E 08 AC 7D 00033 4\$:  
24 BB 00037  
7E 7C 00039  
64 06 FB 0003B  
1F 11 0003E  
7E 0C AC 7D 00040 5\$:  
08 AC DD 00044  
24 BB 00047  
7E 7C 00049  
64 07 FB 0004B  
0F 11 0004E  
7E 10 AC 7D 00050 6\$:  
7E 08 AC 7D 00054  
24 BB 00058  
7E 7C 0005A  
64 08 FB 0005C  
0000' CF D6 0005F 7\$:  
50 52 D0 00063  
03 00 EF 00066  
51 50 01 00 EF 0006B

1041  
1057  
1056  
1057  
1058  
1059  
1060  
1061  
1067  
1068



RMSREPORT - Handle Output for ANALYZE/RMS\_FILE  
ANL\$FORMAT\_ERROR - Put Error Message in Report

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[ANALYZ.SRC]RMSREPORT.B32;1

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			50		04	C4	00070	MULL2	#4, R0	
			51		50	C2	00073	SUBL2	R0, R1	
			51		03	C0	00076	ADDL2	#3, R1	
			50	0000G	CF	D0	00079	MOVL	ANL\$WORST_ERROR, TMP_CODE	
53		50	03		00	EF	0007E	EXTZV	#0, #3, TMP_CODE, R3	
50		50	01		00	EF	00083	EXTZV	#0, #1, TMP_CODE, R0	
			50		04	C4	00088	MULL2	#4, R0	
			53		50	C2	0008B	SUBL2	R0, R3	
			50	03	A3	9E	0008E	MOVAB	3(R3), R0	
			50		51	D1	00092	CMPL	R1, R0	
					05	15	00095	BLEQ	8\$	
				0000G	CF	52	D0	00097	MOVL	R2, ANL\$WORST_ERROR
						04	0009C	RET	8\$:	

; Routine Size: 157 bytes, Routine Base: \$CODE\$ + 02DF



```

574 1075 1 %sbtll 'ANL$ERROR_COUNT - Report Count of Errors'
575 1076 1 ++
576 1077 1 Functional Description:
577 1078 1 This routine is called to print a line telling how many errors
578 1079 1 were discovered during the analysis.
579 1080 1
580 1081 1 Formal Parameters:
581 1082 1 none
582 1083 1
583 1084 1 Implicit Inputs:
584 1085 1 global data
585 1086 1
586 1087 1 Implicit Outputs:
587 1088 1 global data
588 1089 1
589 1090 1 Returned Value:
590 1091 1 none
591 1092 1
592 1093 1 Side Effects:
593 1094 1
594 1095 1 --
595 1096 1
596 1097 1
597 1098 2 global routine anl$error_count: novalue = begin
598 1099 2
599 1100 2
600 1101 2 ! First we print the error count in the report.
601 1102 2
602 1103 2 if .error_count equl 0 then
603 1104 2     anl$format_line(0,0,anlrms$errornone)
604 1105 2 else
605 1106 2     anl$format_line(0,0,anlrms$errorcount,.error_count);
606 1107 2
607 1108 2 ! If this is a /CHECK or /STATISTICS report, we want the user to know
608 1109 2 ! what happened. If the report is going to a file, then we better display
609 1110 2 ! a summary line.
610 1111 2
611 1112 2 if (.anl$gb_mode equl anl$k_check or .anl$gb_mode equl anl$k_statistics) and
612 1113 2 (not .generating_report or .report_to_file) then
613 1114 2     signal (anlrms$errors,2,input_file_spec,.error_count);
614 1115 2
615 1116 2 ! Now we can reset the error counter for the next file.
616 1117 2
617 1118 2 error_count = 0;
618 1119 2
619 1120 2 return;
620 1121 2
621 1122 1 end;
```

```

52      0000' 0004 00000
50      CF 9E 00002
        62 D0 00007
        OF 12 0000A
```

```

.ENTRY  ANL$ERROR_COUNT, Save R2
MOVAB  ERROR_COUNT, R2
MOVL   ERROR_COUNT, R0
BNEQ   1$
```

```

: 1098
:
: 1103
:
```



RMSREPORT  
V04-000

RMSREPORT - Handle Output for ANALYZE/RMS\_FILE  
ANL\$ERROR\_COUNT - Report Count of Errors

K 3  
16-Sep-1984 00:10:49  
14-Sep-1984 11:53:01

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[ANALYZ.SRC]RMSREPORT.B32;1

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		00000000G	8F DD 0000C	PUSHL #ANLRMSS_ERRORNONE	: 1104
			7E 7C 00012	CLRQ -(SP)	:
FE3D	CF		03 FB 00014	CALLS #3, ANL\$FORMAT_LINE	:
			0F 11 00019	BRB 2\$	:
		00000000G	50 DD 0001B 1\$:	PUSHL R0	: 1106
			8F DD 0001D	PUSHL #ANLRMSS_ERRORCOUNT	:
			7E 7C 00023	CLRQ -(SP)	:
FE2C	CF		04 FB 00025	CALLS #4, ANL\$FORMAT_LINE	:
	01	0000G	CF 91 0002A 2\$:	CMPB ANL\$GB_MODE, #T	: 1112
			07 13 0002F	BEQL 3\$	:
	04	0000G	CF 91 00031	CMPB ANL\$GB_MODE, #4	:
			1E 12 00036	BNEQ 5\$	:
	04	FEE4	C2 E9 00038 3\$:	BLBC GENERATING REPORT, 4\$	: 1113
	15	FC	A2 E9 0003D	BLBC REPORT TO FILE, 5\$	:
			62 DD 00041 4\$:	PUSHL ERROR_COUNT	: 1114
		FEEC	C2 9F 00043	PUSHAB INPUT_FILE_SPEC	:
			02 DD 00047	PUSHL #2	:
		00000000G	8F DD 00049	PUSHL #ANLRMSS_ERRORS	:
00000000G	00		04 FB 0004F	CALLS #4, LIB\$SIGNAL	:
			62 D4 00056 5\$:	CLRL ERROR_COUNT	: 1118
			04 00058	RET	: 1122

; Routine Size: 89 bytes, Routine Base: \$CODE\$ + 037C



```

: 623 1123 1 %sbttl 'ANL$FORMAT_FLAGS - Format Flag Bits'
: 624 1124 1 ++
: 625 1125 1 Functional Description:
: 626 1126 1 This routine is called to format the flags in a byte/word/longword
: 627 1127 1 of flags.
: 628 1128 1
: 629 1129 1 Formal Parameters:
: 630 1130 1 indent_level The level at which the introductory message is to
: 631 1131 1 be indented. The flags are indented one more level.
: 632 1132 1 intro_msg The introductory message.
: 633 1133 1 flags The flag bits.
: 634 1134 1 flag_def A longword vector defining the flags. The zeroth
: 635 1135 1 entry specifies the highest-numbered flag. The
: 636 1136 1 remaining longwords contain the address of a counted
: 637 1137 1 string giving the name of the flag. If the flag is
: 638 1138 1 undefined, the longword contains zero.
: 639 1139 1
: 640 1140 1 Implicit Inputs:
: 641 1141 1 global data
: 642 1142 1
: 643 1143 1 Implicit Outputs:
: 644 1144 1 global data
: 645 1145 1
: 646 1146 1 Returned Value:
: 647 1147 1 none
: 648 1148 1
: 649 1149 1 Side Effects:
: 650 1150 1
: 651 1151 1 --
: 652 1152 1
: 653 1153 1
: 654 1154 2 global routine anl$format_flags(indent_level,intro_msg,flags,flag_def): novalue = begin
: 655 1155 2
: 656 1156 2 bind
: 657 1157 2 flags_vector = flags: bitvector[],
: 658 1158 2 flag_def_vector = .flag_def: vector[,long];
: 659 1159 2
: 660 1160 2 local
: 661 1161 2 i: long;
: 662 1162 2
: 663 1163 2
: 664 1164 2 ! Begin by printing the introductory message.
: 665 1165 2
: 666 1166 2 anl$format_line(2,.indent_level,.intro_msg);
: 667 1167 2
: 668 1168 2 ! Now we loop through the flags and process each one that is defined.
: 669 1169 2 ! We print the flag name, bit number, and current setting.
: 670 1170 2
: 671 1171 3 incru i from 0 to .flag_def_vector[0] do (
: 672 1172 3 if .flag_def_vector[i+1] nequ 0 then
: 673 1173 3 anl$format_line(0,.indent_level+1,anlrms$flag,
: 674 1174 3 i,.flag_def_vector[i+1],.flags_vector[i]);
: 675 1175 3 );
: 676 1176 2
: 677 1177 2 return;
: 678 1178 2
: 679 1179 1 end;
```



					0004 00000	.ENTRY	ANL\$FORMAT_FLAGS, Save R2	:	1154
	7E	04	AC	7D	00002	MOVQ	INDENT_LEVEL, -(SP)	:	1166
			02	DD	00006	PUSHL	#2	:	
	FDF0	CF	03	FB	00008	CALLS	#3, ANL\$FORMAT_LINE	:	
			52	D4	0000D	CLRL	I	:	1171
			29	11	0000F	BRB	3\$	:	
	50	10	BC	42	DE 00011	MOVAL	@FLAG_DEF[I], R0	:	1172
		04	A0	D5	00016	TSTL	4(R0)	:	
			1D	13	00019	BEQL	2\$	:	
7E	OC	AC	01	52	EF 0001B	EXTZV	I, #1, FLAGS_VECTOR, -(SP)	:	1174
			04	A0	DD 00021	PUSHL	4(R0)	:	
				52	DD 00024	PUSHL	I	:	
				8F	DD 00026	PUSHL	#ANLRMS\$ FLAG	:	1173
	7E	04	AC	01	C1 0002C	ADDL3	#1, INDENT_LEVEL, -(SP)	:	
				7E	D4 00031	CLRL	-(SP)	:	
	FDC5	CF		06	FB 00033	CALLS	#6, ANL\$FORMAT_LINE	:	
				52	D6 00038	INCL	I	:	1171
	10	BC		52	D1 0003A	CMPL	I, @FLAG_DEF	:	
				D1	1B 0003E	BLEQU	1\$	:	
				04	00040	RET		:	1179

; Routine Size: 65 bytes, Routine Base: \$CODE\$ + 03D5



```
681 1180 1 %sbttl 'ANL$FORMAT_HEX - Format Hex Dump of Data'
682 1181 1 ++
683 1182 1 Functional Description:
684 1183 1 This routine is called to format a hex dump of some bytes.
685 1184 1 It includes the character representation of the bytes also.
686 1185 1
687 1186 1 Formal Parameters:
688 1187 1 indent_level The indentation level at which to place the dump.
689 1188 1 data Address of descriptor of data to be dumped.
690 1189 1
691 1190 1 Implicit Inputs:
692 1191 1 global data
693 1192 1
694 1193 1 Implicit Outputs:
695 1194 1 global data
696 1195 1
697 1196 1 Returned Value:
698 1197 1 none
699 1198 1
700 1199 1 Side Effects:
701 1200 1
702 1201 1 --
703 1202 1
704 1203 1
705 1204 2 global routine anl$format_hex(indent_level,data): novalue = begin
706 1205 2
707 1206 2 bind
708 1207 2 data_dsc = .data: descriptor,
709 1208 2 data_vector = .data_dsc[ptr]: vector[,byte];
710 1209 2
711 1210 2 local
712 1211 2 i: long,
713 1212 2 arg_list: vector[20,long],
714 1213 2 count: long;
715 1214 2
716 1215 2 builtin
717 1216 2 callg;
718 1217 2
719 1218 2
720 1219 2 ! If the data is null, just quit.
721 1220 2
722 1221 2 if .data_dsc[len] equl 0 then
723 1222 2 return;
724 1223 2
725 1224 2 ! We begin by printing two heading lines. The first shows the offsets
726 1225 2 ! of the bytes and the second is a line of dashes.
727 1226 2
728 1227 2 anl$format_line(3,.indent_level,anlrms$_hexheading1);
729 1228 2 anl$format_line(0,.indent_level,anlrms$_hexheading2);
730 1229 2
731 1230 2 ! We will be building argument lists to ANL$FORMAT LINE. It will always
732 1231 2 ! include widow control, indentation level, and the message code.
733 1232 2
734 1233 2 arg_list[1] = 0;
735 1234 2 arg_list[2] = .indent_level;
736 1235 2 arg_list[3] = anlrms$_hexdata;
737 1236 2
```



```
: 738 1237 2 ! Now we go into a loop, once through for each 8 bytes to be formatted.
: 739 1238 2
: 740 1239 2 i = 0;
: 741 1240 3 while .i lssu .data_dsc[len] do (
: 742 1241 3
: 743 1242 3 ! Calculate the number of bytes that will go on this line.
: 744 1243 3
: 745 1244 3 count = minu(.data_dsc[len]-.i,8);
: 746 1245 3
: 747 1246 3 ! Next in the argument list we need a count of the spaces to skip
: 748 1247 3 ! so the bytes will be lined up from right to left.
: 749 1248 3
: 750 1249 3 arg_list[4] = (8 - .count) * 3;
: 751 1250 3
: 752 1251 3 ! Now we need the count itself.
: 753 1252 3
: 754 1253 3 arg_list[5] = .count;
: 755 1254 3
: 756 1255 3 ! Now we loop through 8 (or less) bytes and put them in the
: 757 1256 3 ! argument list (backwards, of course).
: 758 1257 3
: 759 1258 4 decr j from .count-1 to 0 do (
: 760 1259 4 arg_list[6+.j] = .data_vector[.i];
: 761 1260 4 increment (i);
: 762 1261 3 );
: 763 1262 3
: 764 1263 3 ! Next we have the byte offset.
: 765 1264 3
: 766 1265 3 arg_list[6+.count] = .i - .count;
: 767 1266 3
: 768 1267 3 ! Now we have to add to the argument list the byte count and a
: 769 1268 3 ! pointer to the byte string.
: 770 1269 3
: 771 1270 3 arg_list[7+.count] = .count;
: 772 1271 3 arg_list[8+.count] = data_vector[.i - .count];
: 773 1272 3
: 774 1273 3 ! Finally, fill in the argument count.
: 775 1274 3
: 776 1275 3 arg_list[0] = 8 + .count;
: 777 1276 3
: 778 1277 3 ! Now we can print the hex data.
: 779 1278 3
: 780 1279 3 callg(arg_list,anl$format_line);
: 781 1280 2 );
: 782 1281 2
: 783 1282 2 return;
: 784 1283 2
: 785 1284 1 end;
```

```
55 FDB6 CF 003C 00000
5E B0 AE 9E 00002
54 08 AC D0 0000B
```

```
.ENTRY ANL$FORMAT_HEX, Save R2,R3,R4,R5
MOVAB ANL$FORMAT_LINE, R5
MOVAB -80(SP), SP
MOVL DATA, R4
```

```
: 1204
:
: 1207
```



53	64	10	00	ED	00041	1\$:	CMPZV	#0, #16, (R4), I	1240
			4F	1B	00046	2\$:	BLEQU	6\$	
		50	64	3C	00048		MOVZWL	(R4), R0	1244
		50	53	C2	0004B		SUBL2	I, R0	
		08	50	D1	0004E		CMPL	R0, #8	
			03	1B	00051		BLEQU	3\$	
		50	08	D0	00053		MOVL	#8, R0	
		52	50	D0	00056	3\$:	MOVL	R0, COUNT	
		50	F8	A2	9E	00059	MOVAB	-8(R2), R0	1249
		50	03	C4	0005D		MULL2	#3, R0	
10	AE		50	CE	00060		MNEGL	R0, ARG_LIST+16	
14	AE		52	D0	00064		MOVL	COUNT, ARG_LIST+20	1253
	50		52	D0	00068		MOVL	COUNT, J	1258
			09	11	0006B		BRB	5\$	
18	AE40	04	B443	9A	0006D	4\$:	MOVZBL	@4(R4)[I], ARG_LIST+24[J]	1259
			53	D6	00074		INCL	I	1260
	F4		50	F4	00076	5\$:	SOBGEQ	J, 4\$	1258
	53		52	C3	00079		SUBL3	COUNT, I, R0	1265
18	AE42		50	D0	0007D		MOVL	R0, ARG_LIST+24[COUNT]	
1C	AE42		52	D0	00082		MOVL	COUNT, ARG_LIST+28[COUNT]	1270
20	AE42	04	B440	9E	00087		MOVAB	@4(R4)[R0], ARG_LIST+32[COUNT]	1271
	6E	08	A2	9E	0008E		MOVAB	8(R2), ARG_LIST	1275
	65		6E	FA	00092		CALLG	ARG_LIST, ANL\$FORMAT_LINE	1279
			AA	11	00095		BRB	1\$	1240
			04	00097	6\$:		RET		1284

; Routine Size: 152 bytes, Routine Base: \$CODE\$ + 0416



```

: 787 1285 1 %sbttl 'ANL$FORMAT_PROTECTION_MASK - Format Protection Mask'
: 788 1286 1 ++
: 789 1287 1 Functional Description:
: 790 1288 1 This routine is called to format the standard 16-bit system
: 791 1289 1 protection mask.
: 792 1290 1
: 793 1291 1 Formal Parameters:
: 794 1292 1 indent_level Indentation level in the report.
: 795 1293 1 message Status code for message to use.
: 796 1294 1 protection Protection mask.
: 797 1295 1
: 798 1296 1 Implicit Inputs:
: 799 1297 1 global data
: 800 1298 1
: 801 1299 1 Implicit Outputs:
: 802 1300 1 global data
: 803 1301 1
: 804 1302 1 Returned Value:
: 805 1303 1 none
: 806 1304 1
: 807 1305 1 Side Effects:
: 808 1306 1
: 809 1307 1 --
: 810 1308 1
: 811 1309 1
: 812 1310 2 global routine anl$format_protection_mask(indent_level,message,protection): novalue = begin
: 813 1311 2
: 814 1312 2 own
: 815 1313 2 protection_table: vector[16,long] initial(
: 816 1314 2 uplit byte (%ascic 'RWED'),
: 817 1315 2 uplit byte (%ascic 'WED'),
: 818 1316 2 uplit byte (%ascic 'RED'),
: 819 1317 2 uplit byte (%ascic 'ED'),
: 820 1318 2 uplit byte (%ascic 'RWD'),
: 821 1319 2 uplit byte (%ascic 'WD'),
: 822 1320 2 uplit byte (%ascic 'RD'),
: 823 1321 2 uplit byte (%ascic 'D'),
: 824 1322 2 uplit byte (%ascic 'RWE'),
: 825 1323 2 uplit byte (%ascic 'WE'),
: 826 1324 2 uplit byte (%ascic 'RE'),
: 827 1325 2 uplit byte (%ascic 'E'),
: 828 1326 2 uplit byte (%ascic 'RW'),
: 829 1327 2 uplit byte (%ascic 'W'),
: 830 1328 2 uplit byte (%ascic 'R'),
: 831 1329 2 uplit byte (%ascic ''));
: 832 1330 2
: 833 1331 2
: 834 1332 2 ! Simply format the message using the above protection code table.
: 835 1333 2
: 836 1334 2 anl$format_line(0,.indent_level,.message,.protection_table[.protection<0,4,0>],
: 837 1335 2 .protection_table[.protection<4,4,0>],
: 838 1336 2 .protection_table[.protection<8,4,0>],
: 839 1337 2 .protection_table[.protection<12,4,0>]);
: 840 1338 2
: 841 1339 2 return;
: 842 1340 2
: 843 1341 1 end;
```



```
.PSECT $SPLITS$,NOWRT,NOEXE,2
44 45 57 52 04 00068 P.AAO: .ASCII <4>\RWED\
44 45 57 03 0006D P.AAP: .ASCII <3>\WED\
44 45 52 03 00071 P.AAQ: .ASCII <3>\RED\
44 45 45 02 00075 P.AAR: .ASCII <2>\ED\
44 57 52 03 00078 P.AAS: .ASCII <3>\RWD\
44 45 57 02 0007C P.AAT: .ASCII <2>\WD\
44 52 02 0007F P.AAU: .ASCII <2>\RD\
44 44 01 00082 P.AAV: .ASCII <1>\D\
45 57 52 03 00084 P.AAW: .ASCII <3>\RWE\
45 57 02 00088 P.AAX: .ASCII <2>\WE\
45 52 02 0008B P.AAY: .ASCII <2>\RE\
45 45 01 0008E P.AAZ: .ASCII <1>\E\
57 52 02 00090 P.ABA: .ASCII <2>\RW\
57 01 00093 P.ABB: .ASCII <1>\W\
52 01 00095 P.ABC: .ASCII <1>\R\
00 00097 P.ABD: .ASCII <0>

.PSECT $OWNS$,NOEXE,2
00000000' 00000000' 00000000' 00000000' 00000000' 00000000' 00685
00000000' 00000000' 00000000' 00000000' 00000000' 00000000' 00688 PROTECTION_TABLE:
00000000' 00000000' 00000000' 00000000' 00000000' 00000000' 006A0
00000000' 00000000' 00000000' 00000000' 00000000' 00000000' 006B8
P.AAO, P.AAP, P.AAQ, P.AAR, P.AAS, -
P.AAT, P.AAU, P.AAV, P.AAW, P.AAX, P.AAY, -
P.AAZ, P.ABA, P.ABB, P.ABC, P.ABD

.PSECT $CODE$,NOWRT,2
50 0D AC 52 0000' 0004 00000 .ENTRY ANL$FORMAT_PROTECTION_MASK, Save R2 : 1310
04 04 EF 00002 MOVAB PROTECTION_TABLE, R2 : 1337
6240 DD 0000D EXTZV #4, #4, PROTECTION+1, R0 : 1336
04 00 EF 00010 PUSHL PROTECTION_TABLE[R0] : 1335
6240 DD 00016 EXTZV #0, #4, PROTECTION+1, R0 : 1334
04 04 EF 00019 PUSHL PROTECTION_TABLE[R0] : 1341
6240 DD 0001F EXTZV #4, #4, PROTECTION, R0 : 1341
04 00 EF 00022 PUSHL PROTECTION_TABLE[R0] : 1341
6240 DD 00028 EXTZV #0, #4, PROTECTION, R0 : 1341
7E 04 AC 7D 0002B PUSHL PROTECTION_TABLE[R0] : 1341
7E D4 0002F MOVQ INDENT_LEVEL, -(SP) : 1341
FCEE CF 07 FB 00031 CLRL -(SP) : 1341
04 00036 CALLS #7, ANL$FORMAT_LINE : 1341
RET
```

; Routine Size: 55 bytes, Routine Base: \$CODE\$ + 04AE



```

: 845      1342 1 %sbttl 'ANL$FORMAT_FILE_ATTRIBUTES - Format File Attribute Area'
: 846      1343 1 ++
: 847      1344 1 Functional Description:
: 848      1345 1 This routine is called to format the user file attribute area, which
: 849      1346 1 is assumed to contain RMS file attributes. We don't check the
: 850      1347 1 attributes.
: 851      1348 1
: 852      1349 1 Formal Parameters:
: 853      1350 1 none
: 854      1351 1
: 855      1352 1 Implicit Inputs:
: 856      1353 1 global data
: 857      1354 1
: 858      1355 1 Implicit Outputs:
: 859      1356 1 global data
: 860      1357 1
: 861      1358 1 Returned Value:
: 862      1359 1 none
: 863      1360 1
: 864      1361 1 Side Effects:
: 865      1362 1
: 866      1363 1 --
: 867      1364 1
: 868      1365 1
: 869      1366 2 global routine anl$format_file_attributes: novalue = begin
: 870      1367 2
: 871      1368 2
: 872      1369 2 ! We start with a nice little header.
: 873      1370 2
: 874      1371 2 anl$format_line(3,0,anlrms$_fileattr);
: 875      1372 2 anl$format_skip(0);
: 876      1373 2
: 877      1374 2 ! The first data printed is the file organization.
: 878      1375 2
: 879      1376 3 anl$format_line(0,1,anlrms$_fileorg,(selectoneu .anl$gl_fat[fat$v_fileorg] of set
: 880      1377 3 [fat$c_sequential]: uplit byte (%ascic 'sequential');
: 881      1378 3 [fat$c_relative]: uplit byte (%ascic 'relative');
: 882      1379 3 [fat$c_indexed]: uplit byte (%ascic 'indexed');
: 883      1380 2 tes));
: 884      1381 2
: 885      1382 2 ! Now we include the record format and attributes.
: 886      1383 2
: 887      1384 2 anl$format_line(0,1,anlrms$_recfmt,
: 888      1385 3 (selectoneu .anl$gl_fat[fat$v_rtype] of set
: 889      1386 3 [fat$c_undefined]: uplit byte (%ascic 'undefined');
: 890      1387 3 [fat$c_fixed]: uplit byte (%ascic 'fixed');
: 891      1388 3 [fat$c_variable]: uplit byte (%ascic 'variable');
: 892      1389 3 [fat$c_vfc]: uplit byte (%ascic 'variable-with-fixed-control');
: 893      1390 3 [fat$c_stream]: uplit byte (%ascic 'stream');
: 894      1391 3 [fat$c_streamlf]: uplit byte (%ascic 'stream-Lf');
: 895      1392 3 [fat$c_streamcr]: uplit byte (%ascic 'stream-CR');
: 896      1393 2 tes));
: 897      1394 2
: 898      1395 3 anl$format_line(0,1,anlrms$_recattr,(if .anl$gl_fat[fat$v_nospan] then uplit byte (%ascic 'no-span')
: 899      1396 2 else uplit byte (%ascic ''));
: 900      1397 3 (if .anl$gl_fat[fat$v IMPLIEDCC] then uplit byte (%ascic 'carriage-return')
: 901      1398 3 else if .anl$gl_fat[fat$v_fortrancc] then uplit byte (%ascic 'fortran'))

```



```

: 902 1399 3      else if .anl$gl_fat[fat$w_printcc] then uplit byte (%ascic 'print')
: 903 1400 2      else uplit byte (%ascic ' ');
: 904 1401 2
: 905 1402 2 ! Now the maximum record size and the longest record size.
: 906 1403 2
: 907 1404 2 anl$format_line(0,1,anlrms$_maxrecsize,.anl$gl_fat[fat$w_maxrec]);
: 908 1405 2 if .anl$gl_fat[fat$w_fileorg] eqlu fat$c_sequential or .anl$gl_fat[fat$w_rtype] eqlu fat$c_fixed then
: 909 1406 2     anl$format_line(0,1,anlrms$_longrec,.anl$gl_fat[fat$w_rsize]);
: 910 1407 2
: 911 1408 2 ! Now the header size for variable with fixed control.
: 912 1409 2
: 913 1410 2 if .anl$gl_fat[fat$w_rtype] eqlu fat$c_vfc then
: 914 1411 2     anl$format_line(0,1,anlrms$_ct[size,.anl$gl_fat[fat$b_vfcsz]);
: 915 1412 2
: 916 1413 2 ! Now the number of blocks allocated, extend quantity, and the end-of-file
: 917 1414 2 ! information.
: 918 1415 2
: 919 1416 2 anl$format_line(0,1,anlrms$_alloc,.anl$gl_fat[fat$l_hiblk],.anl$gl_fat[fat$w_defext]);
: 920 1417 2 if .anl$gl_fat[fat$w_fileorg] eqlu fat$c_sequential then
: 921 1418 2     anl$format_line(0,1,anlrms$_eof,.anl$gl_fat[fat$l_efblk],.anl$gl_fat[fat$w_ffbyte]);
: 922 1419 2
: 923 1420 2 ! Now the bucket size, unless it's a sequential file.
: 924 1421 2
: 925 1422 2 if .anl$gl_fat[fat$w_fileorg] eqlu fat$c_relative or .anl$gl_fat[fat$w_fileorg] eqlu fat$c_indexed then
: 926 1423 2     anl$format_line(0,1,anlrms$_bucketsize,.anl$gl_fat[fat$b_bktsz]);
: 927 1424 2
: 928 1425 2 ! Finally, display the global buffer count.
: 929 1426 2
: 930 1427 2 anl$format_line(0,1,anlrms$_globalbufs,.anl$gl_fat[fat$w_gbc]);
: 931 1428 2
: 932 1429 2 return;
: 933 1430 2
: 934 1431 1 end;
```

													.PSECT	\$PLITS,NOWRT,NOEXE,2					
				6C	61	69	74	6E	65	75	71	65	73	0A	00098	P.ABE:	.ASCII	<10>\sequential\	
						65	76	69	74	61	6C	65	72	08	000A3	P.ABF:	.ASCII	<8>\relative\	
							64	65	78	65	64	6E	69	07	000AC	P.ABG:	.ASCII	<7>\indexed\	
					64	65	6E	69	66	65	64	6E	75	09	000B4	P.ABH:	.ASCII	<9>\undefined\	
									64	65	78	69	66	05	000BE	P.ABI:	.ASCII	<5>\fixed\	
						65	6C	62	61	69	72	61	76	08	000C4	P.ABJ:	.ASCII	<8>\variable\	
2D	68	74	69	77	2D	65	6C	62	61	69	72	61	76	1B	000CD	P.ABK:	.ASCII	<27>\variable-with-fixed-control\	
		6C	6F	72	74	6E	6F	63	2D	64	65	78	69	66	000DC				
								6D	61	65	72	74	73	06	000E9	P.ABL:	.ASCII	<6>\stream\	
					46	4C	2D	6D	61	65	72	74	73	09	000F0	P.ABM:	.ASCII	<9>\stream-LF\	
					52	43	2D	6D	61	65	72	74	73	09	000FA	P.ABN:	.ASCII	<9>\stream-CR\	
							6E	61	70	73	2D	6F	6E	07	00104	P.ABO:	.ASCII	<7>\no-span\	
72	75	74	65	72	2D	65	67	61	69	72	72	61	63	00	0010C	P.ABP:	.ASCII	<0>	
														0F	0010D	P.ABQ:	.ASCII	<15>\carriage-return\	
														6E	0011C				
						6E	61	72	74	72	6F	66	07	0011D	P.ABR:	.ASCII	<7>\fortran\		
								74	6E	69	72	70	05	00125	P.ABS:	.ASCII	<5>\print\		
													00	0012B	P.ABT:	.ASCII	<0>		



```
.PSECT $CODE$,NOWRT,2

.ENTRY ANLSFORMAT_FILE_ATTRIBUTES, Save R2,R3,R4      : 1366
MOVAB ANLSGL_FAT, R4
MOVAB ANLSFORMAT_LINE, R3
MOVAB P.ABE, R2
PUSHL #ANLRMSS_FILEATTR
MOVQ #3, -(SP)
CALLS #3, ANLSFORMAT_LINE
CLRL -(SP)
CALLS #1, ANLSFORMAT_SKIP
EXTZV #4, #4, @ANLSGL_FAT, R1
BNEQ 1$
MOVAB P.ABE, R0
BRB 4$
CMPL R1, #1
BNEQ 2$
MOVAB P.ABF, R0
BRB 4$
CMPL R1, #2
BEQL 3$
MNEGL #1, -(SP)
BRB 5$
MOVAB P.ABG, R0
PUSHL R0
PUSHL #ANLRMSS_FILEORG
PUSHL #1
CLRL -(SP)
CALLS #4, ANLSFORMAT_LINE
EXTZV #0, #4, @ANLSGL_FAT, R0
BNEQ 6$
MOVAB P.ABH, R1
BRB 11$
CMPL R0, #1
BNEQ 7$
MOVAB P.ABI, R1
BRB 11$
CMPL R0, #2
BNEQ 8$
MOVAB P.ABJ, R1
BRB 11$
CMPL R0, #3
BNEQ 9$
MOVAB P.ABK, R1
BRB 11$
CMPL R0, #4
BNEQ 10$
MOVAB P.ABL, R1
BRB 11$
CMPL R0, #5
BNEQ 12$
MOVAB P.ABM, R1
PUSHL R1
BRB 14$
CMPL R0, #6

54      0000G CF 001C 00000
53      FCE2 CF 9E 00002
52      0000' CF 9E 0000C
00000000G 8F DD 00011
7E      03 7D 00017
63      03 FB 0001A
04      7E D4 0001D
51      01 FB 0001F
00      04 EF 00024
B4      05 12 0002A
00F6    62 9E 0002C
01      19 11 0002F
0B      51 D1 00031 1$:
50      06 12 00034
02      A2 9E 00036
0E      0E 11 0003A
14      51 D1 0003C 2$:
7E      05 13 0003F
50      01 CE 00041
00000000G 06 11 00044
3$      A2 9E 00046
4$      50 DD 0004A
5$      8F DD 0004C
01      DD 00052
7E      D4 00054
63      04 FB 00056
50      00 EF 00059
04      06 12 0005F
51      A2 9E 00061
1C      35 11 00065
01      50 D1 00067 6$:
06      12 0006A
51      A2 9E 0006C
26      2A 11 00070
02      50 D1 00072 7$:
06      12 00075
51      A2 9E 00077
2C      1F 11 0007B
03      50 D1 0007D 8$:
06      12 00080
51      A2 9E 00082
35      14 11 00086
04      50 D1 00088 9$:
06      12 0008B
51      A2 9E 0008D
51      09 11 00091
05      50 D1 00093 10$:
08      12 00096
51      A2 9E 00098
58      51 DD 0009C 11$:
10      11 0009E
06      50 D1 000A0 12$:
```



			05	13	000A3	BEQL	13\$		
		7E	01	CE	000A5	MNEGL	#1, -(SP)		
			06	11	000A8	BRB	14\$		
		50	A2	9E	000AA	MOVAB	P.ABN, R0		
			50	DD	000AE	PUSHL	R0		
		00000000G	8F	DD	000B0	PUSHL	#ANLRMSS_RECfmt		1384
			01	DD	000B6	PUSHL	#1		
			7E	D4	000B8	CLRL	-(SP)		
		63	04	FB	000BA	CALLS	#4, ANLS\$FORMAT_LINE		
		50	64	D0	000BD	MOVL	ANLS\$GL_FAT, R0		1397
06	01	A0	01	E1	000C0	BBC	#1, 1(R0), 15\$		
		51	A2	9E	000C5	MOVAB	P.ABQ, R1		
			1C	11	000C9	BRB	18\$		
		07	A0	E9	000CB	BLBC	1(R0), 16\$		1398
		51	C2	9E	000CF	MOVAB	P.ABR, R1		
			11	11	000D4	BRB	18\$		
07	01	A0	02	E1	000D6	BBC	#2, 1(R0), 17\$		1399
		51	C2	9E	000DB	MOVAB	P.ABS, R1		
			05	11	000E0	BRB	18\$		
		51	C2	9E	000E2	MOVAB	P.ABT, R1		1400
			51	DD	000E7	PUSHL	R1		1398
06	01	A0	03	E1	000E9	BBC	#3, 1(R0), 19\$		1395
		50	A2	9E	000EE	MOVAB	P.ABO, R0		
			04	11	000F2	BRB	20\$		
		50	A2	9E	000F4	MOVAB	P.ABP, R0		1396
			50	DD	000F8	PUSHL	R0		
		00000000G	8F	DD	000FA	PUSHL	#ANLRMSS_RECATTR		1395
			01	DD	00100	PUSHL	#1		
			7E	D4	00102	CLRL	-(SP)		
		63	05	FB	00104	CALLS	#5, ANLS\$FORMAT_LINE		
		50	64	D0	00107	MOVL	ANLS\$GL_FAT, R0		1404
		7E	A0	3C	0010A	MOVZWL	16(R0), -(SP)		
		00000000G	8F	DD	0010E	PUSHL	#ANLRMSS_MAXRECSIZE		
			01	DD	00114	PUSHL	#1		
			7E	D4	00116	CLRL	-(SP)		
		63	04	FB	00118	CALLS	#4, ANLS\$FORMAT_LINE		
		50	64	D0	0011B	MOVL	ANLS\$GL_FAT, R0		1405
		8F	60	93	0011E	BITB	(R0), #240		
			07	13	00122	BEQL	21\$		
01	60	04	00	ED	00124	CMPZV	#0, #4, (R0), #1		
			11	12	00129	BNEQ	22\$		
		7E	A0	3C	0012B	MOVZWL	2(R0), -(SP)		1406
		00000000G	8F	DD	0012F	PUSHL	#ANLRMSS_LONGREC		
			01	DD	00135	PUSHL	#1		
			7E	D4	00137	CLRL	-(SP)		
		63	04	FB	00139	CALLS	#4, ANLS\$FORMAT_LINE		
		50	64	D0	0013C	MOVL	ANLS\$GL_FAT, R0		1410
03	60	04	00	ED	0013F	CMPZV	#0, #4, (R0), #3		
			11	12	00144	BNEQ	23\$		
		7E	A0	9A	00146	MOVZBL	15(R0), -(SP)		1411
		00000000G	8F	DD	0014A	PUSHL	#ANLRMSS_CTLSize		
			01	DD	00150	PUSHL	#1		
			7E	D4	00152	CLRL	-(SP)		
		63	04	FB	00154	CALLS	#4, ANLS\$FORMAT_LINE		
		50	64	D0	00157	MOVL	ANLS\$GL_FAT, R0		1416
		7E	A0	3C	0015A	MOVZWL	18(R0), -(SP)		
			04	DD	0015E	PUSHL	4(R0)		



		00000000G	8F	DD	00161	PUSHL	#ANLRMSS\$_ALLOC	
			01	DD	00167	PUSHL	#1	
			7E	D4	00169	CLRL	-(SP)	
	63		05	FB	0016B	CALLS	#5, ANL\$FORMAT_LINE	
	50		64	D0	0016E	MOVL	ANL\$GL_FAT, R0	1417
	8F		60	93	00171	BITB	(R0), #240	
			14	12	00175	BNEQ	24\$	
	7E	0C	A0	3C	00177	MOVZWL	12(R0), -(SP)	1418
		08	A0	DD	0017B	PUSHL	8(R0)	
		00000000G	8F	DD	0017E	PUSHL	#ANLRMSS\$_EOF	
			01	DD	00184	PUSHL	#1	
			7E	D4	00186	CLRL	-(SP)	
	63		05	FB	00188	CALLS	#5, ANL\$FORMAT_LINE	
	50		64	D0	0018B	MOVL	ANL\$GL_FAT, R0	1422
01	60		04	ED	0018E	CMPZV	#4, #4, (R0), #1	
			07	13	00193	BEQL	25\$	
02	60		04	ED	00195	CMPZV	#4, #4, (R0), #2	
			11	12	0019A	BNEQ	26\$	
	7E	0E	A0	9A	0019C	MOVZBL	14(R0), -(SP)	1423
		00000000G	8F	DD	001A0	PUSHL	#ANLRMSS\$_BUCKETSIZE	
			01	DD	001A6	PUSHL	#1	
			7E	D4	001A8	CLRL	-(SP)	
	63		04	FB	001AA	CALLS	#4, ANL\$FORMAT_LINE	
	50		64	D0	001AD	MOVL	ANL\$GL_FAT, R0	1427
	7E	14	A0	3C	001B0	MOVZWL	20(R0), -(SP)	
		00000000G	8F	DD	001B4	PUSHL	#ANLRMSS\$_GLOBALBUFS	
			01	DD	001BA	PUSHL	#1	
			7E	D4	001BC	CLRL	-(SP)	
	63		04	FB	001BE	CALLS	#4, ANL\$FORMAT_LINE	
			04	001C1	RET			1431

: Routine Size: 450 bytes, Routine Base: \$CODE\$ + 04E5

: 935 1432 1  
: 936 1433 0 end eludom

.EXTRN LIB\$SIGNAL

## PSECT SUMMARY

Name	Bytes	Attributes
\$OWNS	1736	NOVEC, WRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
\$PLITS	300	NOVEC, NOWRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
\$CODE\$	1703	NOVEC, NOWRT, RD, EXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)

## Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
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RMSREPORT  
V04-000

RMSREPORT - Handle Output for ANALYZE/RMS FILE 16-Sep-1984 00:10:49  
ANL\$FORMAT\_FILE\_ATTRIBUTES - Format File Attrb 14-Sep-1984 11:53:01

VAX-11 Bliss-32 V4.0-742  
[ANALYZ.SRC]RMSREPORT.B32;1

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(12)

:  
: \$255\$DUA28:[SYSLIB]LIB.L32;1 18619 84 0 1000 00:01.8

:  
: COMMAND QUALIFIERS

: BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS\$:RMSREPORT/OBJ=OBJ\$:RMSREPORT MSRC\$:RMSREPORT/UPDATE=(ENH\$:RMSREPORT)

: Size: 1703 code + 2036 data bytes  
: Run Time: 00:34.3  
: Elapsed Time: 01:49.7  
: Lines/CPU Min: 2507  
: Lexemes/CPU-Min: 21226  
: Memory Used: 264 pages  
: Compilation Complete



0009 AH-BT13A-SE  
VAX/VMS V4.0

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